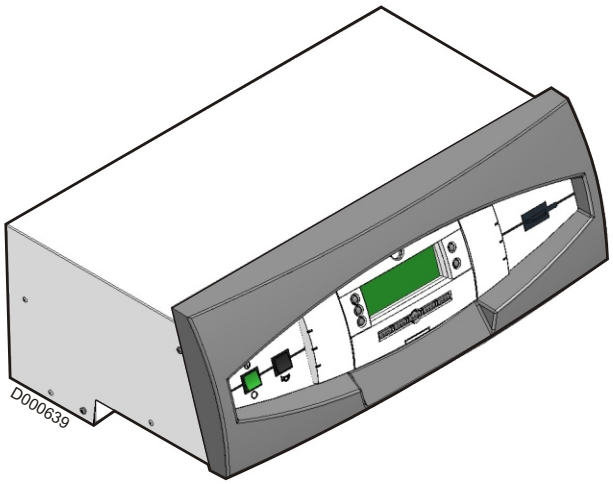
C 230 ECO

EN

Control panel

DIEMATIC-m3 (GV6)



Installation and Service Manual

300015243-001-E

De Dietrich

Contents

1 Introduction 3
1.1 Used symbols 3
1.2 General 3
1.3 Homologations 3
2 Safety instructions and recommendations 4
2.1 Safety instructions 4
2.2 Recommendations 4
3 Technical description 5
3.1 Technical characteristics 5
3.2 Operating principle 6
4 Installation 7
4.1 Package list 7
4.2 Installing the outside sensor 8
4.3 Electrical connections 9
4.3.1 Internal electrical connections 10
4.3.2 Basic connections 11
4.3.3 Connecting a domestic hot water calorifier - Telcom voice remote monitoring module - Remote control 15
4.3.4 Connecting a three way valve circuit to circuit A 16
4.3.5 Connecting a DHW tank with 2 sensors (top and bottom) 17
4.3.6 Connecting a second DHW tank with 2 sensors (top and bottom) 18
4.3.7 Pool connection 20
4.3.8 Connecting a solar DHW tank 22
4.3.9 Connecting one or two circuits with mixer valve 22
4.3.10 Connecting a storage tank with integrated DHW production 23
4.3.11 Basic connections in a cascade installation 24
4.4 Skeleton Diagrams 31
5 Control panel 33
5.1 Electromechanical components 33
5.2 Display 34
6 Changing the settings 35
6.1 Keys accessible when the flap is closed 35
6.2 Keys accessible when the flap is open 37
6.3 Operating mode 38
6.4 Summer mode 39
6.5 Set DHW temperature 40
6.6 Selecting a programme 42
6.7 "User" settings 43
6.8 "Installer" settings 53
6.9 Parameter and input/output check (mode tests) 65
7 Messages - Faults 68
8 Spare parts 74

1 Introduction

1.1 Used symbols

Caution danger
Risk of injury and damage to equipment. Attention must be paid to the warnings on safety of persons and equipment.

Specific information
Information must be kept in mind to maintain comfort

Reference
Refer to another manual or other pages in this instruction manual

DHW: Domestic hot water

CDI 2: Interactive remote control

CDR 2: Radio remote control

PCU: Primary Control Unit (Operating management electronics)

SU: Safety Unit (Safety electronics)

PSU: Parameter Storage Unit (Boiler parameter storage)

CCE: Leak proofing system

1.2 General

Congratulations on your choice of a high quality product. We strongly advise you to read the following instructions in order to guarantee the optimal operation of your appliance. We are sure that it will be entirely to your satisfaction and will meet with all of your expectations.

- For a proper operating of the boiler, follow carefully the instructions.
- The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter).
- In the interest of customers, De Dietrich Thermique SAS are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.

- **Fitting the boiler sensor**
  See: Boiler installation instructions.
- **Hydraulic connection of the water circuit for domestic use**
  See: Calorifier instructions.
- **Installing options**
  See: Option instructions.

1.3 Homologations

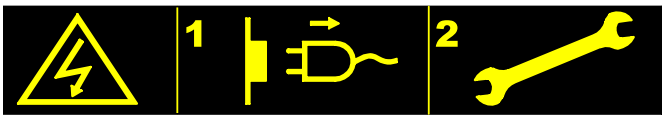
Conformity / Stamp CE

This product complies to the requirements to the european directives and following standards:

- 2006/95/EC Low Voltage Directive
  Reference Standard: EN 60.335.1
- 2004/108/EC Electromagnetic Compatibility Directive
  Generic standards: EN1000-6-3 ; EN 61000-6-1

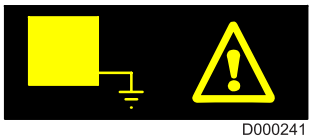
2 Safety instructions and recommendations

2.1 Safety instructions



D00024C

Switch off the power supply before doing the work.


D000241

This appliance must be connected to the earth.

2.2 Recommendations

For a proper operating of the boiler, follow carefully the instructions.

Any intervention on the appliance and heating equipment must be carried out by a qualified technician.

The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter).

Keep to the polarity shown on the terminals: phase (L), neutral (N) and earth ⏚.

To guarantee protection against the corrosion of domestic hot water calorifiers fitted with a titanium anode (Titan Active System® protection system), always leave the control panel switched on.

3 Technical description

3.1 Technical characteristics

Electricity supply : 230 V(-10%, +10%) - 50 Hz

Clock: 2 years minimum.

The DIEMATIC-m3 control panel with built-in regulator controls automatic operation of heating as a function of:

- The outside temperature.
- The ambient temperature when the remote control (as an option) is connected.

■ Characteristics of the outside sensor

Temperature	Resistance
- 20 °C	2392 Ω
- 16 °C	2088 Ω
- 12 °C	1811 Ω
- 8 °C	1562 Ω
- 4 °C	1342 Ω
0 °C	1149 Ω
4 °C	984 Ω
8 °C	842 Ω
12 °C	720 Ω
16 °C	616 Ω
20 °C	528 Ω
24 °C	454 Ω

■ Characteristics of the water sensors

Temperature	Resistance
0 °C	32014 Ω
10 °C	19691 Ω
20 °C	12474 Ω
25 °C	10000 Ω
30 °C	8080 Ω
40 °C	5372 Ω
50 °C	3661 Ω
60 °C	2535 Ω
70 °C	1794 Ω
80 °C	1290 Ω
90 °C	941 Ω

■ Characteristics of the water sensors connected to the PCU (Boiler sensor, Heat exchanger temperature sensor, Return sensor)

Temperature	Resistance
- 20 °C	98932 Ω
- 10 °C	58879 Ω
0 °C	36129 Ω
10 °C	22804 Ω
20 °C	14773 Ω
25 °C	12000 Ω
30 °C	9804 Ω
40 °C	6652 Ω
50 °C	4607 Ω
60 °C	3252 Ω
70 °C	2337 Ω
80 °C	1707 Ω
90 °C	1266 Ω
100 °C	952 Ω
110 °C	726 Ω
120 °C	560 Ω
130 °C	438 Ω
140 °C	345 Ω
150 °C	275 Ω

3.2 Operating principle

The DIEMATIC-m3 control panel enables:

- The regulation of direct circuits and/or circuits with mixing valve.
- The programming of a domestic hot water circuit and the sanitary loop.
- Anti-freeze protection for the installation and the environment if the home is empty.
- Management of a modulating burner.
- The control of a pool circuit or a second domestic hot water production circuit.

The DIEMATIC-m3 control panel is factory set to control 1 direct circuit or 1 circuit with mixing valve with the outlet sensor option AD199 and up to 3 circuits (optional PCBs).

The DIEMATIC-m3 control panel combined with the K3 control panel can be adapted to high output installations and enables:

- The management of boilers and cascades of boilers (up to 10) fitted with a 1-stage, 2-stage or modulating burner.
- The management of the hydraulic network, the DHW, etc.

The DIEMATIC-m3 control panel can comminicate with DIEMATIC VM control units and with compatible telemanagement systems.

The DIEMATIC-m3 control panel enables boiler programming and regulation according to the outside temperature.

Heating regulation is controlled by the influence of the regulator on the burner, the pumps and, if installed, the mixing valve(s).

The connection of a simplified remote control or a CDI 2 interactive remote control enable the auto-adaptability of the gradient and the parallel offset of the heating curve.

The antifreeze function on the installation is active whatever the operating mode. The antifreeze function restarts the boiler at an outside temperature lower than the limit value preset to +3°C.

Domestic hot water regulation is handled by the action of the regulator on the DHW load pump. The DHW loop can be handled by the **S.AUX1:**, **S.AUX2:** or **S.AUX3:** outlet.

The regulator includes legionella protection function, that can be activated.

4 Installation

4.1 Package list

The standard delivery of panel DIEMATIC-m3 includes:

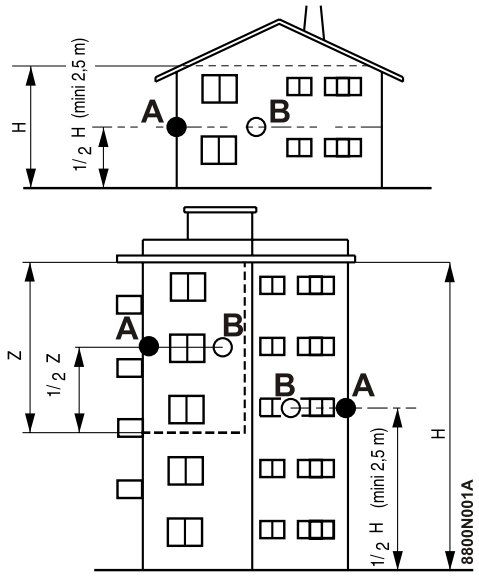
- The DIEMATIC-m3 control panel
- An outside sensor
- A documentation pack

Options available:

- PCB + sensor for a mixing valve (Package FM48).
  Each valve circuit requires a PCB
- An interactive remote control CDI 2 with room sensor (Package FM51)
- A simplified remote control with room sensor (Package FM52)
  An interactive remote control or a simplified remote control can be connected for each circuit.
- CDR 2 radio remote control unit and boiler module (package FM161)
- Additional Radio remote control CDR 2 module (Package FM162)
- Outlet sensor after 3-way valve (Package AD199)
- Dip sensor + Sensor tube (Package AD218)
- A BUS connecting cable (length 12 / 40 m) for connecting the DIEMATIC VM or for putting boilers in cascade (Package AD134 / DB119)
- Sensors for solar installation or storage tank (Package AD160)
- TELCOM voice remote monitoring module
- DHW sensor with Titan Active System® simulation connector for the connection of a domestic hot water calorifier without titanium anode (Package AD 212)
- DIEMATIC VM regulator (Package AD120)
- Flue gas thermostat (Package GV21)
- Minimum gas pressure switch - 3 and 4 sections (Package GV22)
- Minimum gas pressure switch - 5 and 6 sections (Package GV25)
- Flue gas valve (Package GV24)
- Leak proofing system (Package GV26)
  (Only 5-6 section boilers)

4.2 Installing the outside sensor

■ Advised positions



Choose a location:

- on one face of the area to be heated, on the north if possible
- under the influence of meteorological variations
- protected from direct sunlight
- easy to access

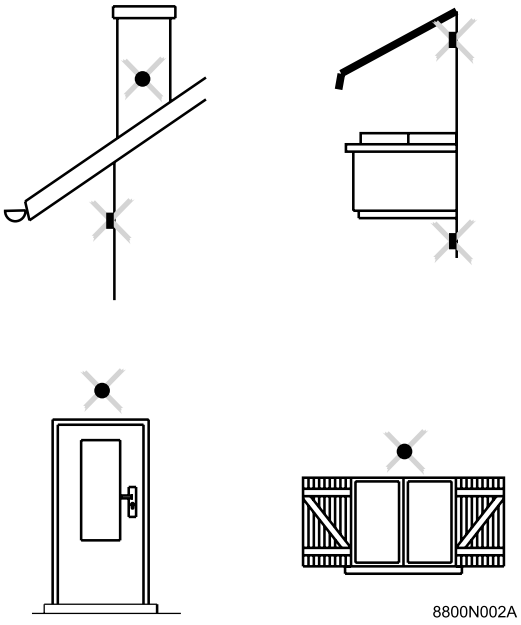
Z: Inhabited area controlled by the sensor

H: Inhabited height controlled by the sensor

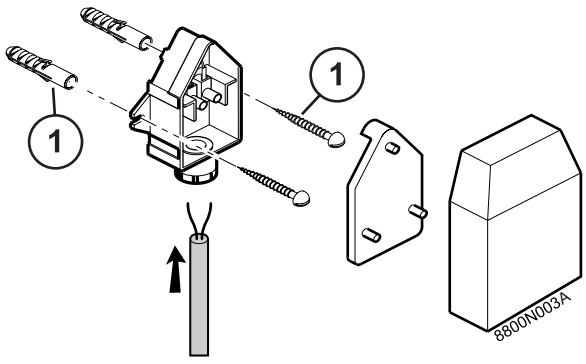
A: recommended position on a corner

B: Possible position

■ Positions to be avoided



■ Mounting



① CB Ø 4 wood screw + inserts (provided)

4.3 Electrical connections

Make the electrical connections of the appliance according to:

- the instructions of the prevailing standards,
- the instructions on the circuit diagrams provided with the appliance,
- the recommendations in the instructions.

The equipment must have a power supply equipped with a omnipolar switch with an opening distance above 3 mm.

The earth must comply with the NFC 15.100 (France) or the RGPT (Belgium) standards.

The power supply must be cut prior to any intervention on the heating installation (for example, via the appropriate fuse or a general switch)and any restart must be prevented.

Only qualified professionnals may carry out electrical connections, always with the power off.

Do not modify the connections inside the control panel.

The available output per outlet is 450 W (with cos φ = 0,7) and the inrush current must be lower than 16 A.
If the charge exceeds one of these values, relay the command using a contactor (fitted outside the control panel).

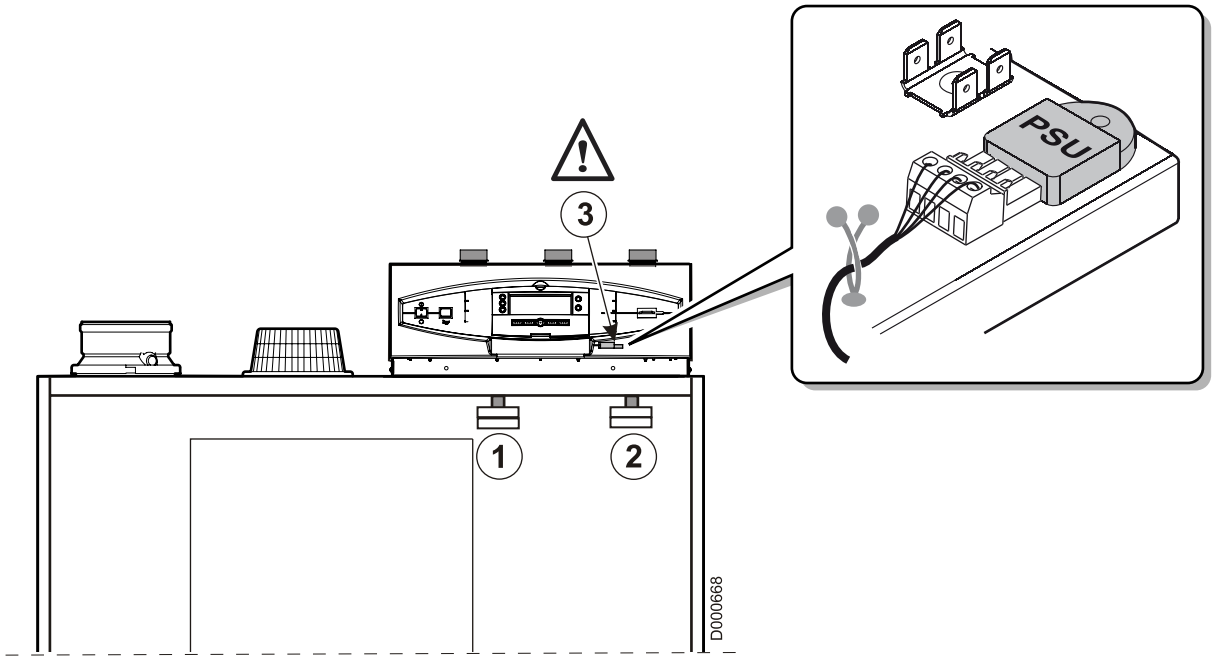
For the 230 V electrical connections, use 3-wire cables with a cross-section of 1,5 mm².

All connections are made to the terminals on the control panel.

4.3.1 Internal electrical connections

- **Check that the connectors under the control panel are correctly fitted.**
- **Check that the PSU is correctly connected.**

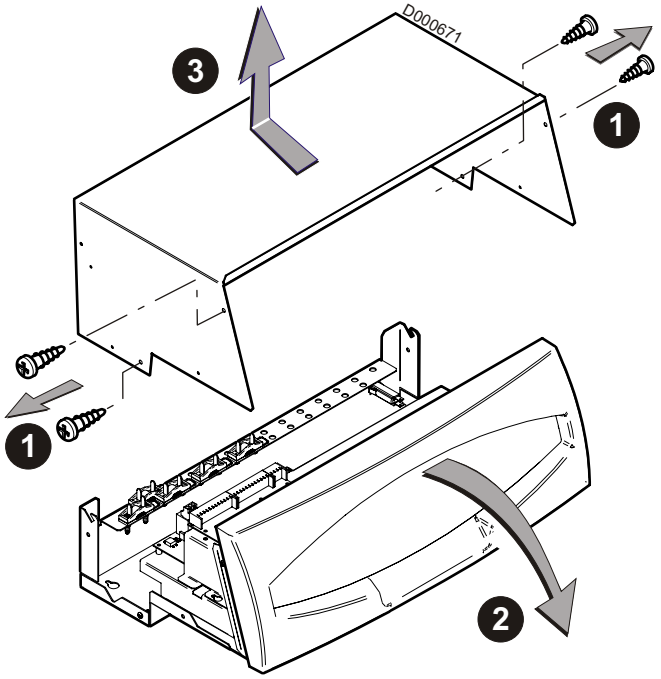
⚠ **When the PSU is not connected, operation is impossible.**



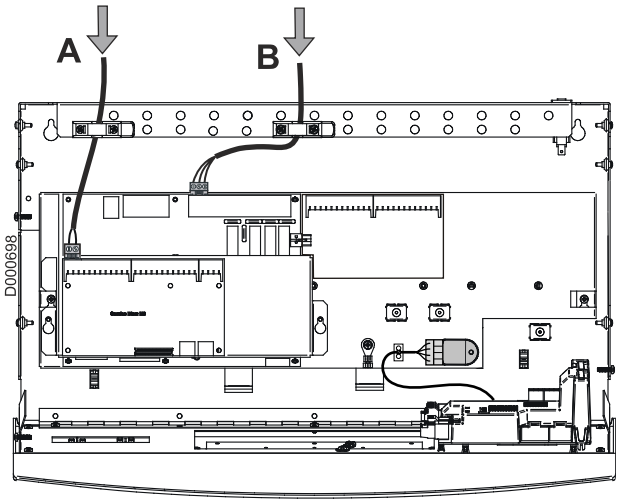
① 24 V
② 230 V
③ Connector PSU

4.3.2 Basic connections

▸ **Open the boiler control panel**



▸ **Access to the connection terminal**



A. Sensors

B. 230 V

Inside the boiler:

▸ Attach the cables to the rear sheet metal plate on the control panel using the cable clamps provided in the accessories pack.

Outside the boiler:

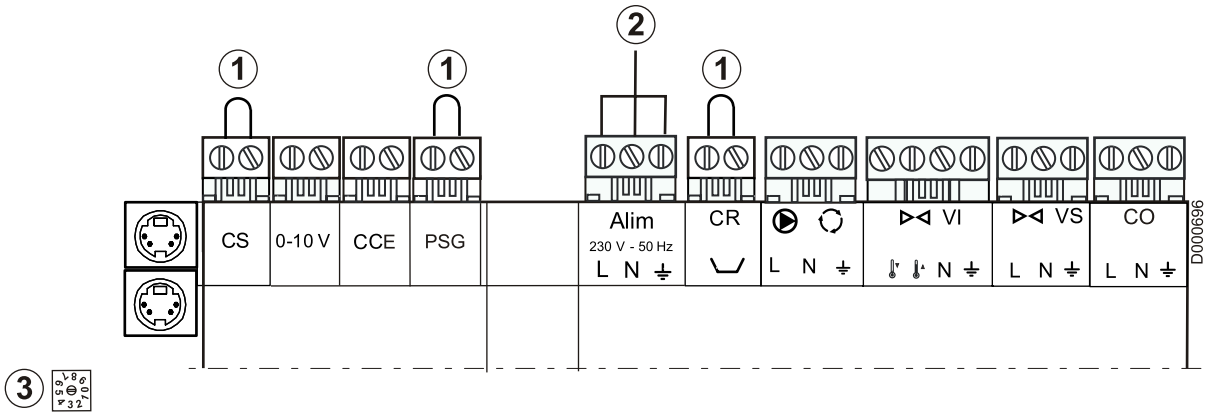
▸ Use 2 pipes or cable guides at least 10 cm apart.

Separate the extra low voltage sensor wires from 230 V power wires in order to prevent electromagnetic interference.

The available output per outlet is 450 W (with cos φ = 0,7) and the inrush current must be lower than 16 A. If the charge exceeds one of these values, relay the command using a contactor (fitted outside the control panel).

Failure to comply with these instructions could lead to interference and control unit malfunctioning or even damage to the electronic circuitry.

■ State on delivery



① Factory fitted bridge

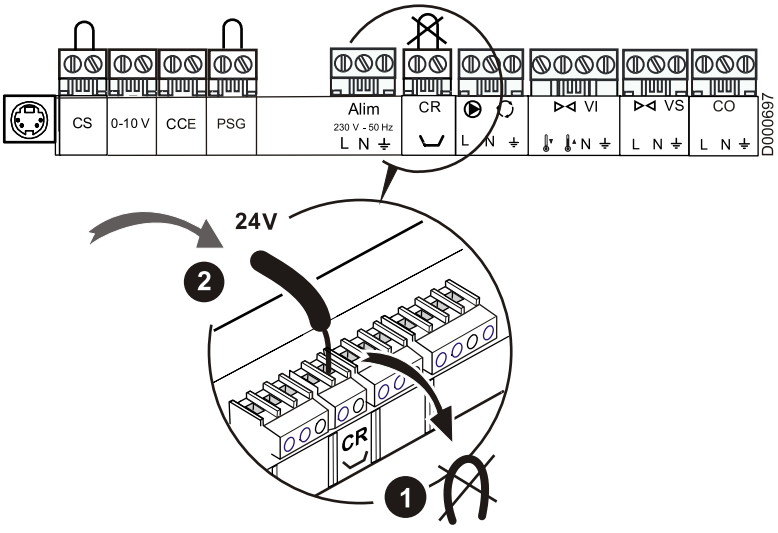
② 230 V main supply

③ Code wheel (Factory setting = 0)

In a cascade installation, each boiler must have a different number.

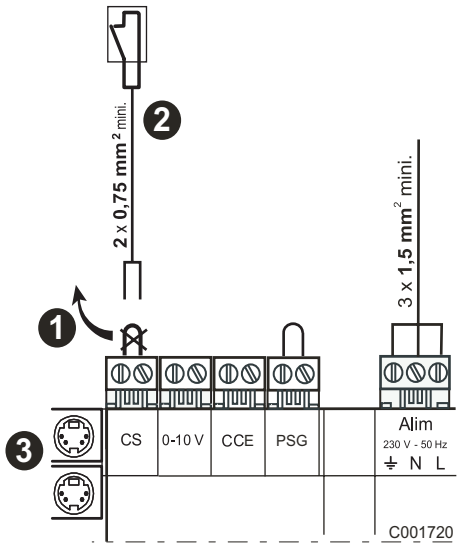
▸ Master boiler: Set to 0	Boiler ❶	See diagram page 26
▸ Secondary boiler: Set to 1	Boiler ❷	
▸ Secondary boiler: Set to 2	Boiler ❸	
▸ (etc.)		

■ Control at very low voltage - 24 V



To get a control at very low voltage (e.g. 24 V) on the pump and valve outlets, it is necessary to remove the bridge **CR** ❶ and power the terminal ❷ with the desired voltage.

■ Safety contact (CS)



❶ Remove bridge

❷ Connect the shutdown unit to the terminals on the **CS**

❸ Connection for the secondary boilers in a cascade or a DIEMATIC VM control system

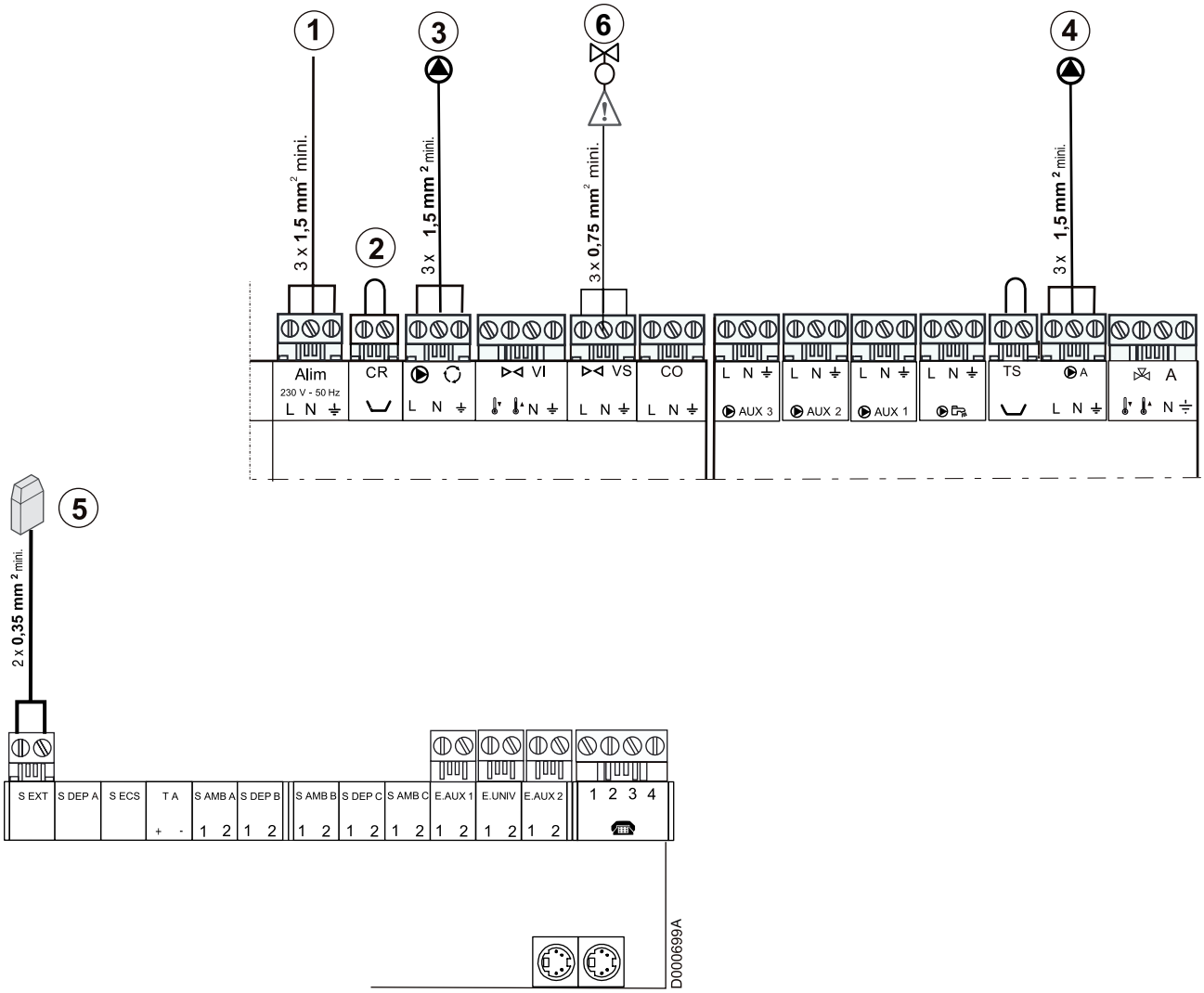
Terminals (CS) after having removed the bridge : used to connect an external safety device (e.g. condensates neutralisation station, low water pressure switch, fire safety, flue gas thermostat (GV21), ...)

Depending on the parameters of the **CS INPUT** boiler, shutdown on the **CS** safety contact will lead to:

▸ Extinguishment of the burner when operating. Automatic restart when the safety contact (CS) closes.	▸ **CS INPUT** set to 2
▸ Boiler safety shutdown. A manual reset is required to restart the boiler.	▸ **CS INPUT** set to 3

ℹ Factory setting: **CS INPUT** set to 2.

■ Connecting



① 230 V main supply

② Relay contact

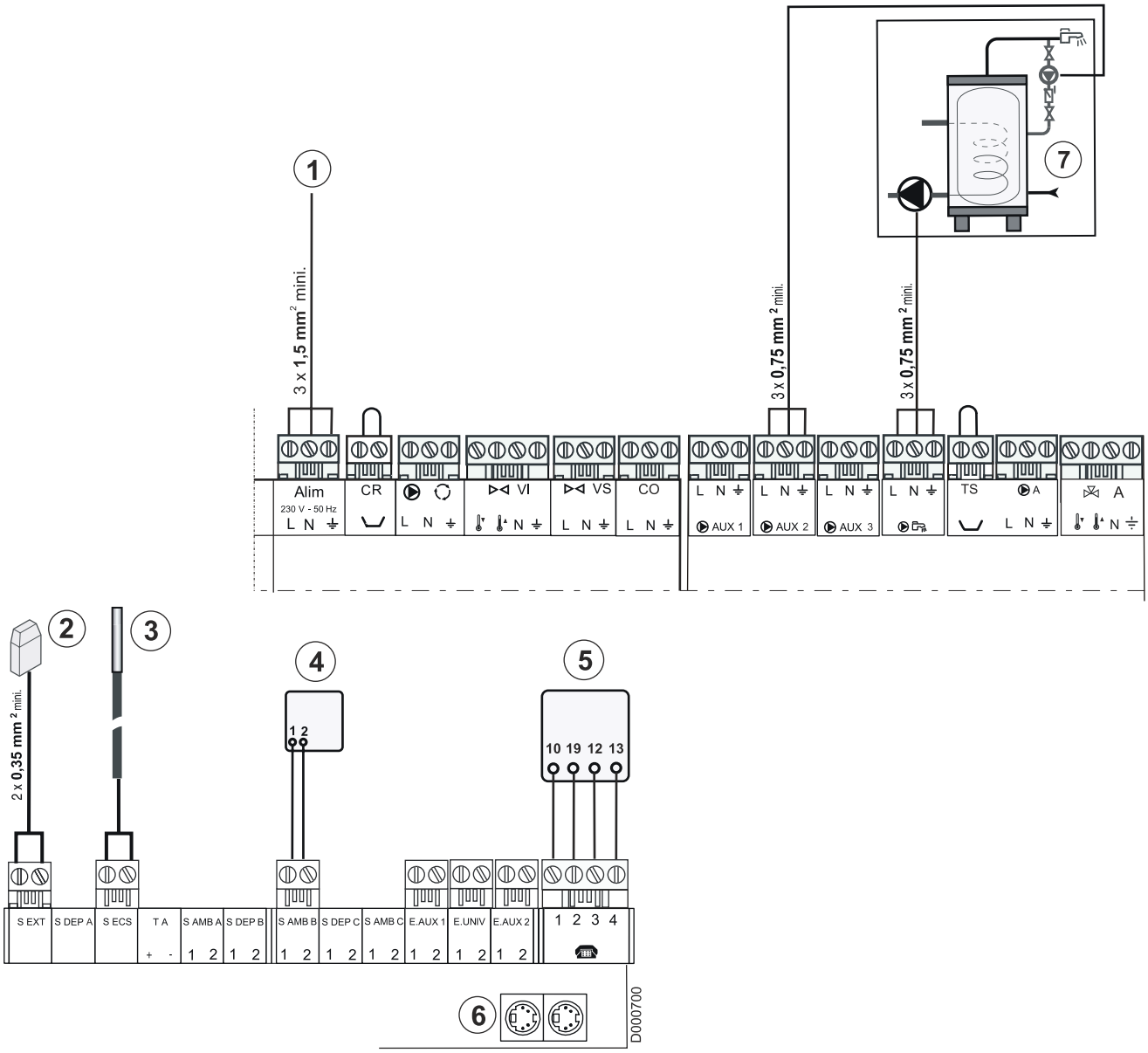
③ Shunt pump

④ Heating pump circuit A

⑤ Outside sensor

⑥ Safety valve. The valve is switched on during the burner operation.

4.3.3 Connecting a domestic hot water calorifier - Telcom voice remote monitoring module - Remote control



① 230 V main supply

② Outside sensor

③ Tank sensor

④ Remote control

⑤ TELCOM voice remote monitoring module (depending on its availabelity in your country)

⑥ Connection for the telephone transmitters

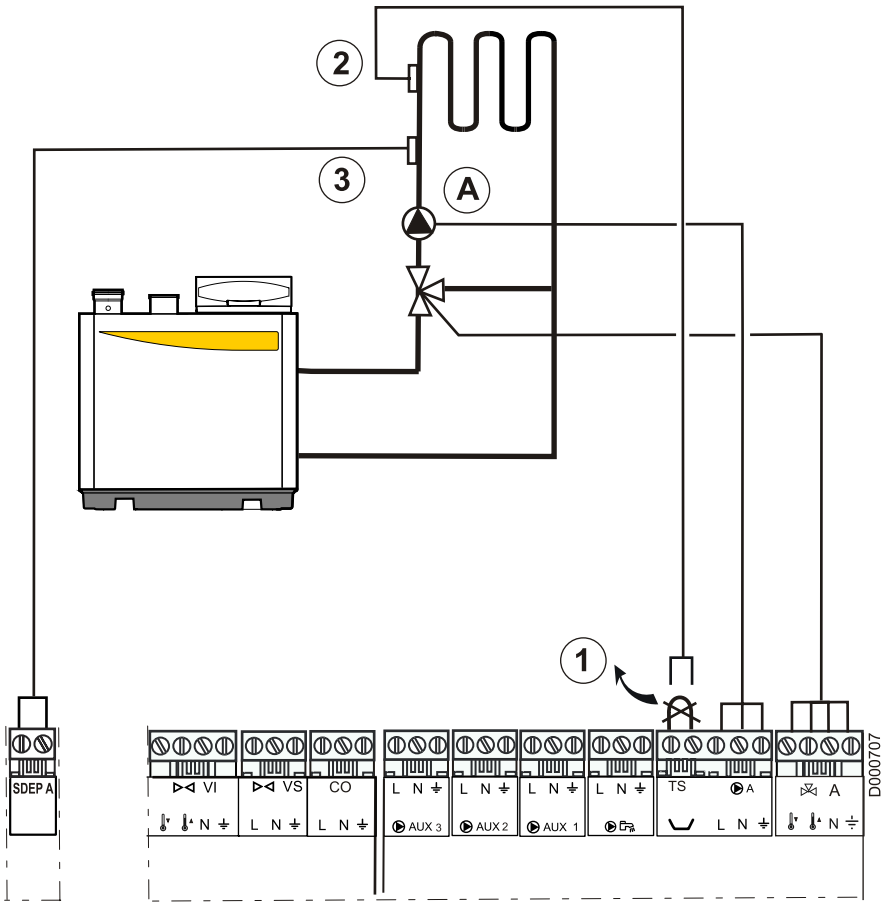
⑦ Principal DHW tank

Outlet ▶ AUX 2 is configured in the factory as the domestic loop.
You can also use ▶ AUX 1 or ▶ AUX 3 by configuring them correctly.

The loop pump operates during the entire comfort period on the DHW time programme and during any DHW overrides.

The telephone outlet **O. TEL:** is configured as **FAILURE** or **DEF+REV**:
In a cascade installation with K3 control panels, this outlet will also be activated if an error occurs on a K3 control panel.

4.3.4 Connecting a three way valve circuit to circuit A



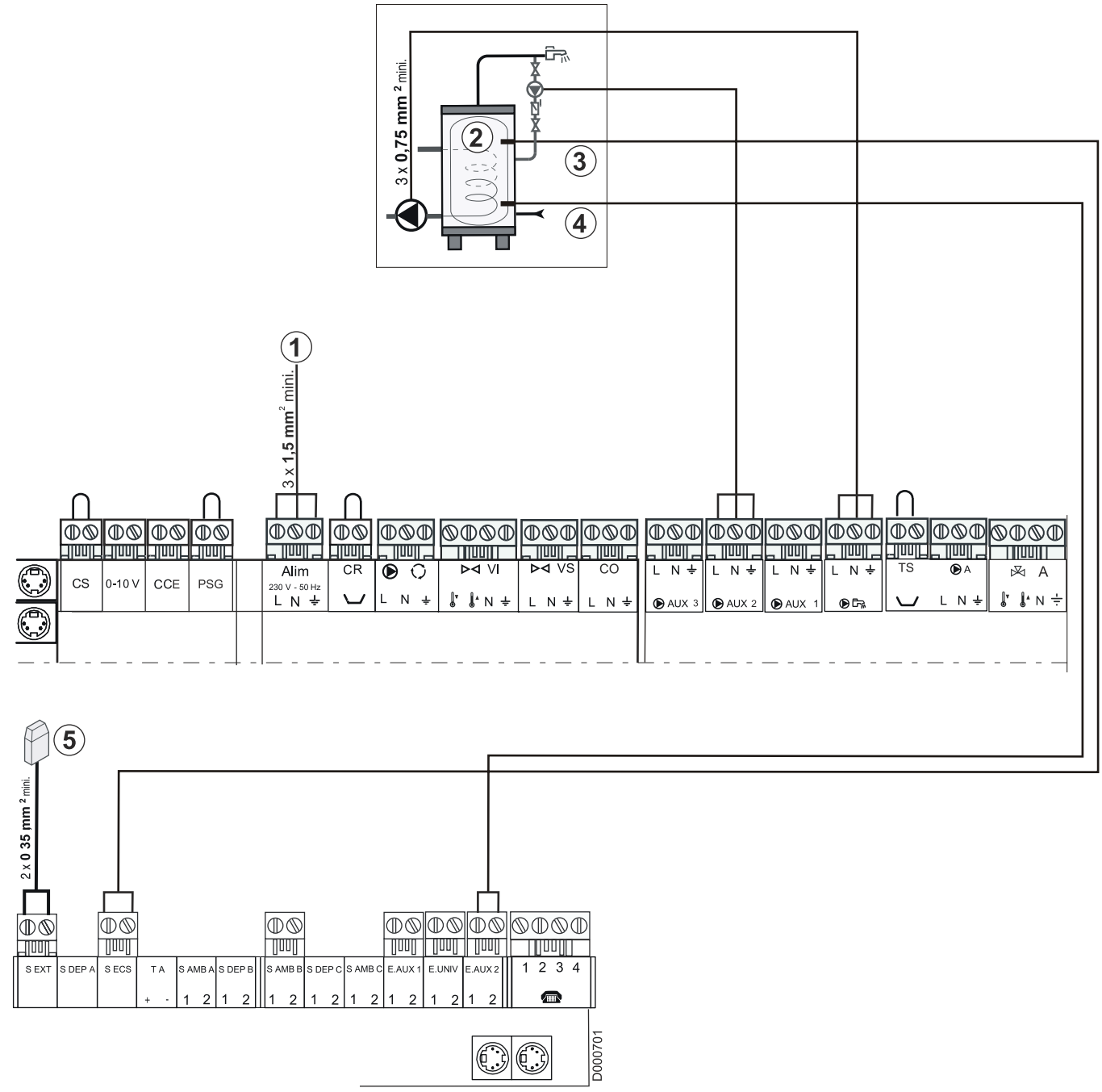
① Remove bridge

② Safety thermostat

③ Outlet sensor (AD199)

- Set the parameter **#CONFIGURATION**, **CIRC. A:** to **3WV**.
- Set the parameter **#LIMITED TEMP.**, **MAX. CIRC. A** to the appropriate user value (For example: Underfloor heating = 50 °C).
- Press key until the appropriate user value is displayed (For example: Underfloor heating = 0.7).

4.3.5 Connecting a DHW tank with 2 sensors (top and bottom)



① 230 V main supply

② DHW tank

③ DHW sensor (top) connected to the S ECS inlet

④ DHW sensor (bottom) connected to the E.AUX 2 inlet

Set:
#CONFIGURATION: **E.AUX2:**: **DHW +**

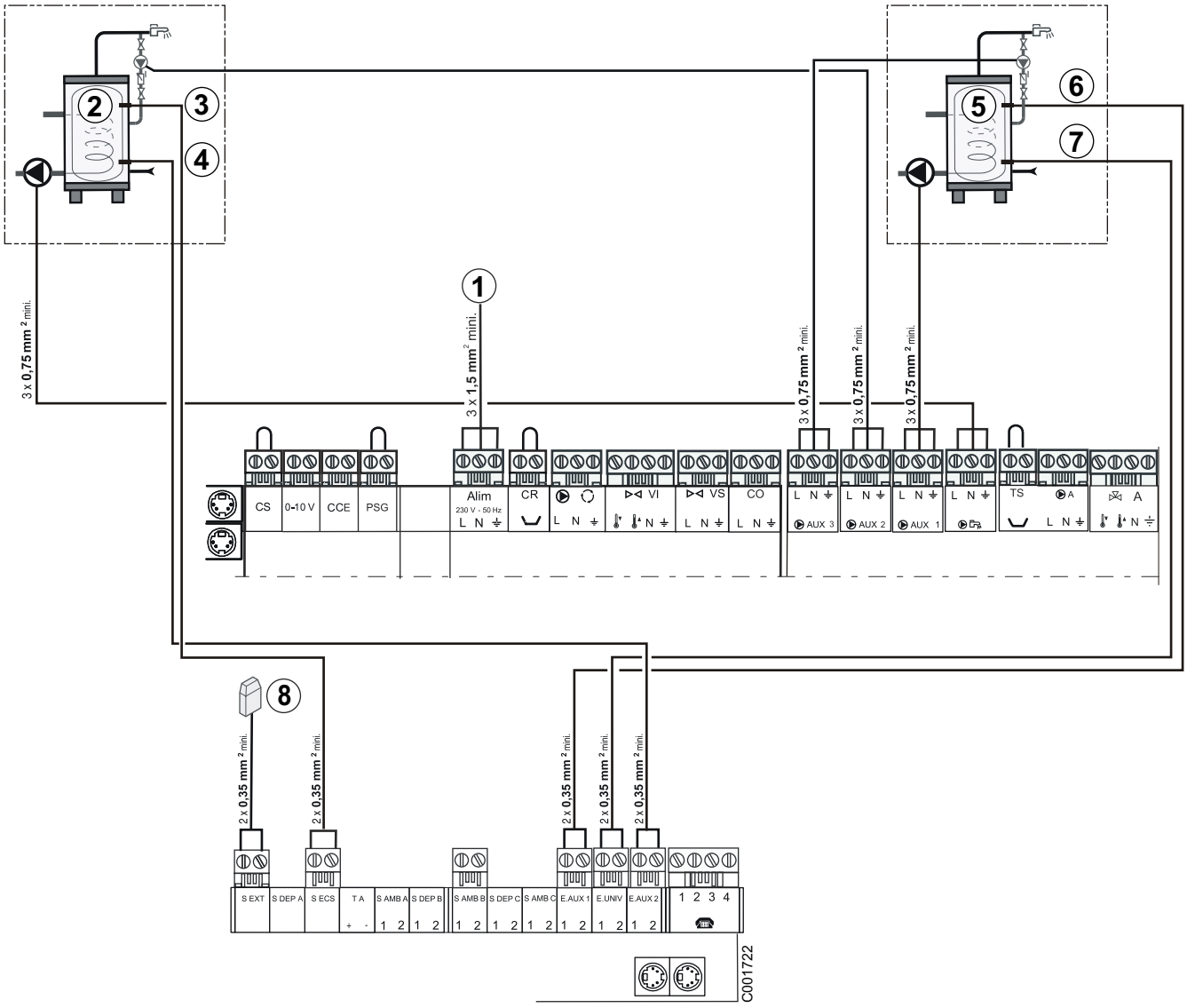
⑤ Outside sensor

■ Operation

Tank loading begins when the tank temperature (top) falls below the DHW instruction (- 6°C).

The tank is loaded when the tank temperature (bottom) is more than the DHW instruction.

4.3.6 Connecting a second DHW tank with 2 sensors (top and bottom)



① 230 V main supply
② Principal DHW tank
③ Main DHW sensor (top) connected to S ECS
④ Main DHW sensor (bottom) connected to E.AUX 2
⑤ DHW tank 2
⑥ DHW sensor 2 (top) connected to E.AUX 1
⑦ DHW sensor 2 (bottom) connected to E.UNIV
⑧ Outside sensor

■ Setting

Set:

#CONFIGURATION: **DHW 2**: **ON**

#CONFIGURATION: **S.AUX2:**: **DHW LO.**

#CONFIGURATION: **S.AUX3:**: **DHW LO2** (Optional)

#CONFIGURATION: **E.AUX2:**: **DHW +**

#CONFIGURATION: **E.UNIV:**: **DHW2 +**

- Fit the sensor (package AD 212) into the second DHW tank.
- Plug in:
  - DHW pump Tank 2: ▶ AUX 1
  - D.H.W. loop back pump 2: ▶ AUX 3 (Optional)
- Adjust the setting **WATER T. DAY 2** or **WATER T. NIGHT 2** using keys and .
- Use the auxiliary time programme to programme the heating periods for the second domestic hot water tank.

D.H.W. loop back pump 2:
The loop pump operates during the entire comfort period on the auxiliary time programme and during any DHW overrides.
The DHW override is shared by the main DHW tank and DHW tank 2.

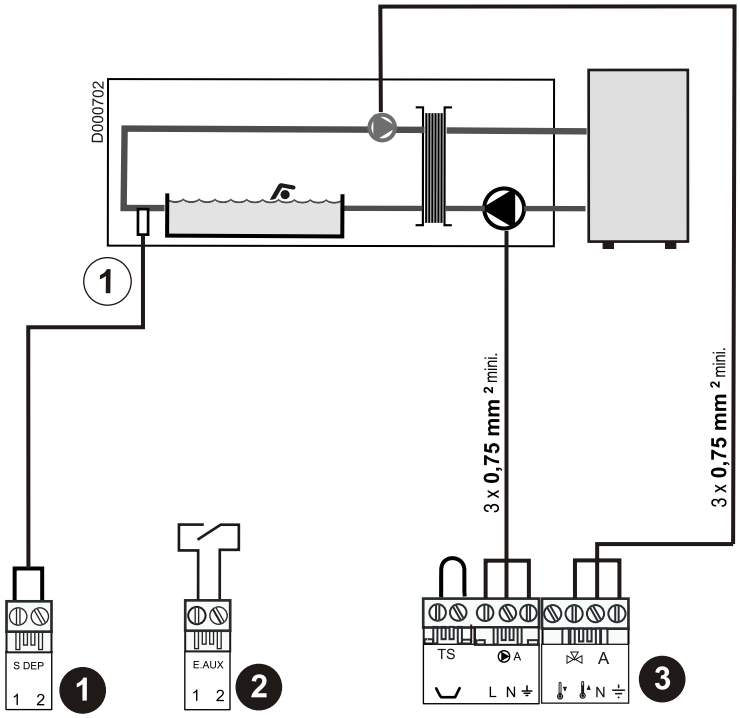
Inlets E.AUX 1, E.AUX 2, E.UNIV and outlets ▶ AUX 1, ▶ AUX 2, ▶ AUX 3 are no longer available for other functions. Their settings are therefore no longer displayed.

■ Operation

Tank loading begins when the tank temperature (top) falls below the DHW instruction (- 6°C).

The tank is loaded when the tank temperature (bottom) is more than the DHW instruction.

4.3.7 Pool connection



① Swimming pool sensor

❶❸ **S DEP A, B, C**
As far as the sensor and pumps are concerned, the pool uses one and the same circuit.

For example: To connect the pump to circuit B, you must also use outlet sensor B.

❷ **E.AUX 1, E.AUX 2, E.UNIV**
Contact used to stop pool heating
(Contact closed = Reheating enabled).

To activate this function, set the parameter **E.AUX1:**, **E.AUX2:** or **E.UNIV:** to **STOR. A**, **STOR. B** or **STOR. C** depending on the input used.

This function is used to protect the liner if the pool sensor fails.

■ Setting

Set the parameter **CIRC. A:**, **CIRC. B:** or **CIRC. C:** to **SWIM.**

■ Controlling the pool circuit

The DIEMATIC-m3 regulation can be used to control a pool circuit in **two different cases**:

Case 1

The regulation DIEMATIC 3 regulates the primary circuit (boiler / exchanger) and the secondary circuit (exchanger / pool).

- Set the value of **MAX. CIRC. A**, **MAX. CIRC. B** or **MAX. CIRC. C** to the temperature which suits the needs of the exchanger.
- Connect the primary circuit pump (boiler/exchanger) to the pump A, B, C outlet. The temperature **MAX. CIRC. A**, **MAX. CIRC. B** or **MAX. CIRC. C** is guaranteed during comfort periods in programme A, B, C in **summer** and **winter** alike.
- Connect the pool sensor (package AD212) to the input S DEP (A, B or C).
- Set the value of the pool sensor using key in the range 0.5-39°C or to **FF** (Frost Free).
- With an **FF** setting, the primary pump starts up and the secondary pump stays off if the installation's antifreeze function is activated.

Case 2

The pool has already a regulation system that is to be kept. The DIEMATIC-m3 control unit only regulates the primary circuit (boiler/ exchanger).

- Set the value of **MAX. CIRC. A**, **MAX. CIRC. B** or **MAX. CIRC. C** to the temperature which suits the needs of the exchanger.
- Connect the primary circuit pump (boiler/exchanger) to the pump A, B, C outlet. The temperature **MAX. CIRC. A**, **MAX. CIRC. B** or **MAX. CIRC. C** is guaranteed during comfort periods in programme A, B, C in **summer** and **winter** alike.

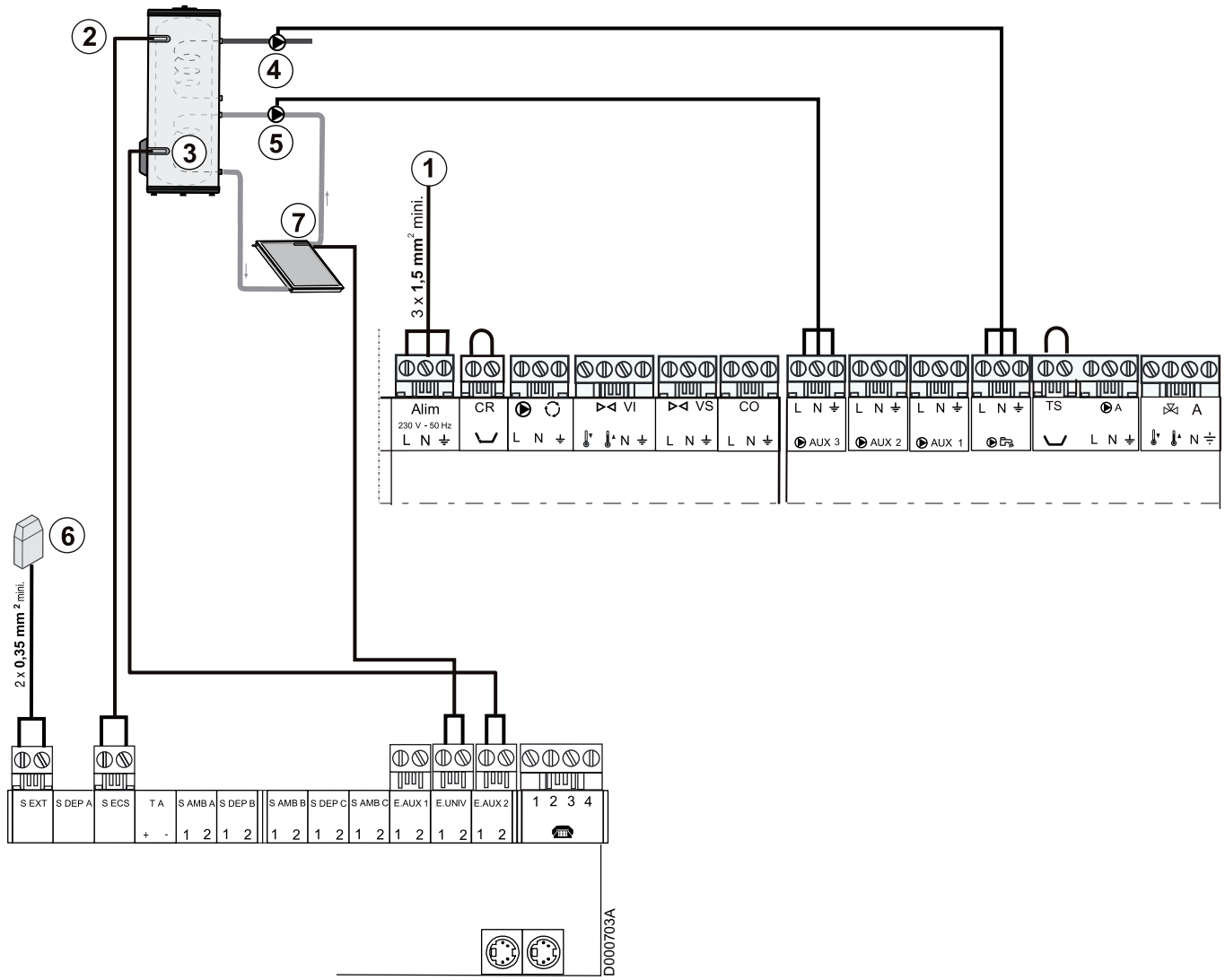
■ Hourly programming of the secondary circuit pump

The secondary pump operates during programme A, B, C comfort periods in summer and winter alike.

■ Stopping

To prepare your pool for winter, consult your pool specialist.

4.3.8 Connecting a solar DHW tank



① 230 V main supply
② DHW sensor
③ Solar tank sensor (Package AD 160)
④ D.H.W. load pump
⑤ Solar load pump
⑥ Outside sensor
⑦ Solar sensor probe (Package AD 160)

■ Setting

Set:

▸ **#CONFIGURATION**: **SUN**: **ON**

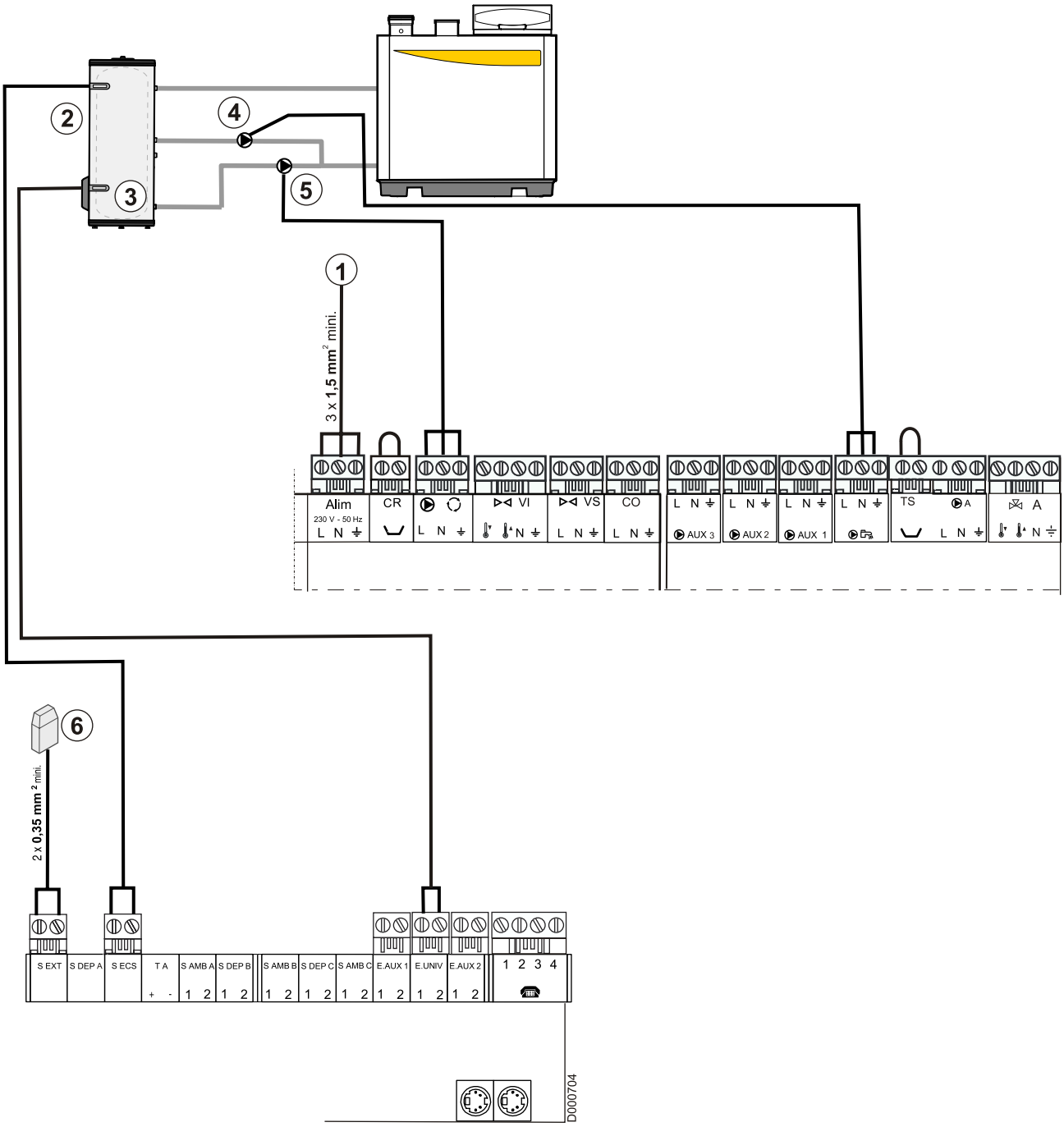
Package AD 160 contains 2 sensors (Markers ③ - ⑦)

E.AUX2, E.UNIV, ▶ AUX 3 are no longer available for other functions. Their settings are therefore no longer displayed.

4.3.9 Connecting one or two circuits with mixer valve

To connect the "mixing valve PCB + sensor" options (See: Instructions for option FM48).

4.3.10 Connecting a storage tank with integrated DHW production



① 230 V main supply
② Tank sensor
③ Hot water storage tank sensor
④ D.H.W. load pump
⑤ Buffer tank pump
⑥ Outside sensor

The storage tank handles heating and DHW production.

Package AD160 contains 2 sensors:

- The sensor for the solar panel is used as a storage tank sensor (Marker ③).
- The sensor for the storage tank is used as a DHW sensor (Marker ②).

  E.UNIV is no longer available for other functions. Its setting is therefore no longer displayed.

■ Setting

Set the parameter **STOR.T.SENS** (**#CONFIGURATION**) to **ON**.

■ Operation

- **In DHW production:**

  Operation is the same as the normal operation. The boiler setting only is equal to the DHW setting +10 K. The heating load pump is off.

- **In heating mode:**
  The burner and the heating load pump (Boiler pump):
  - are off if the temperature of the storage tank is higher than the boiler setting,
  - start up if the temperature of the storage tank falls below the boiler setting -6 K.

4.3.11 Basic connections in a cascade installation

The common outlet temperature is measured by one of the sensors (auxiliary or universal) in the DIEMATIC-m3 control panel.

Place the 6 mm Ø sensor in a sensor tube 1 m downstream from the last boiler connection.

The cable can be lengthened if necessary.

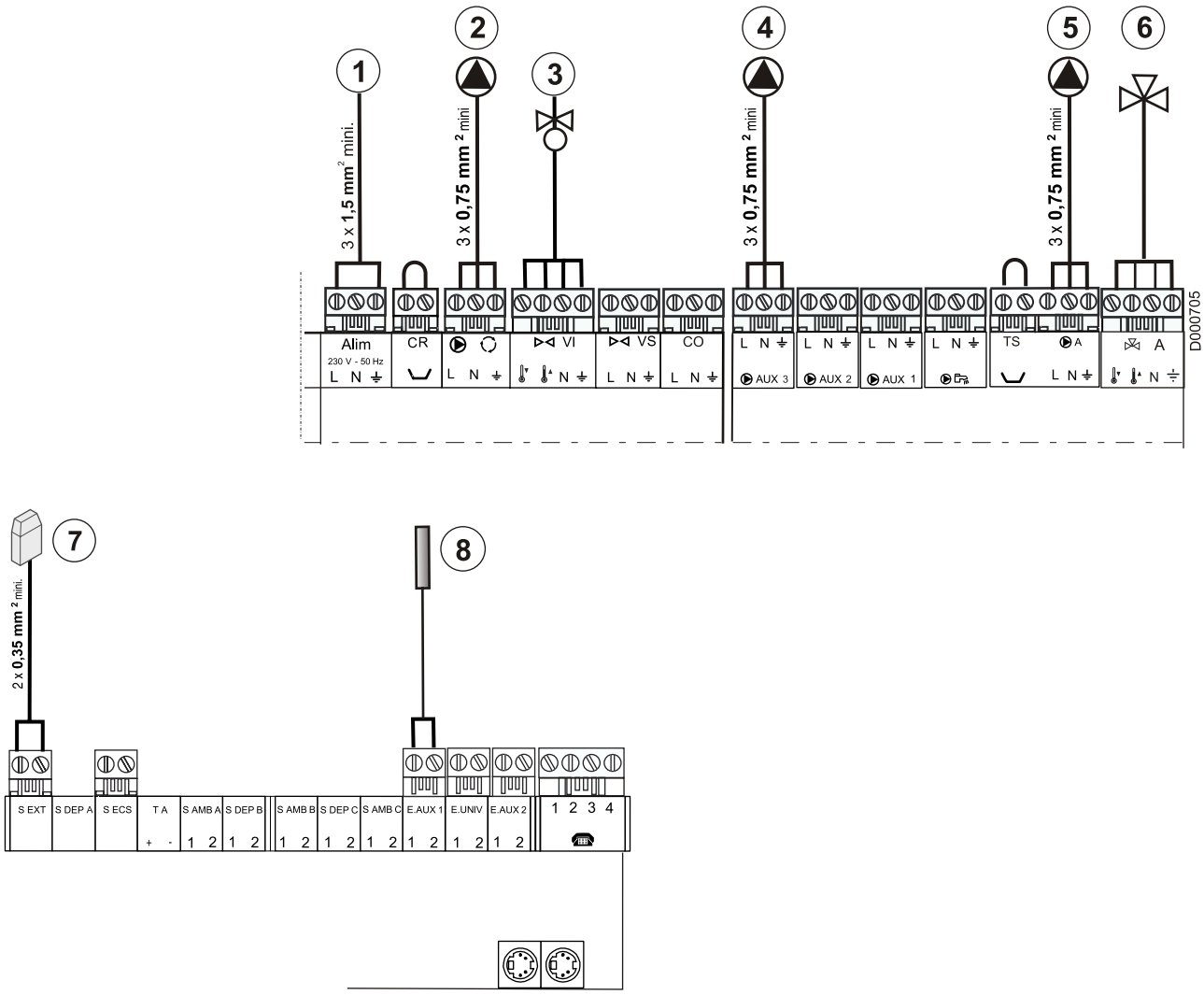
Use the dip sensor with sensor tube (package AD218) if the diameter of the pipes exceeds 100 mm.

For reliable temperature measurement:

- Check that the sensor is always irrigated.
- Check the speed in the pipes upstream of the sensor:

Number of boilers connected in cascade	Minimum water speed
≤ 3	0,2 m/s
≤ 6	0,4 m/s
≤ 10	0,6 m/s

■ Cascade installation (Gate valve + Boiler pump)

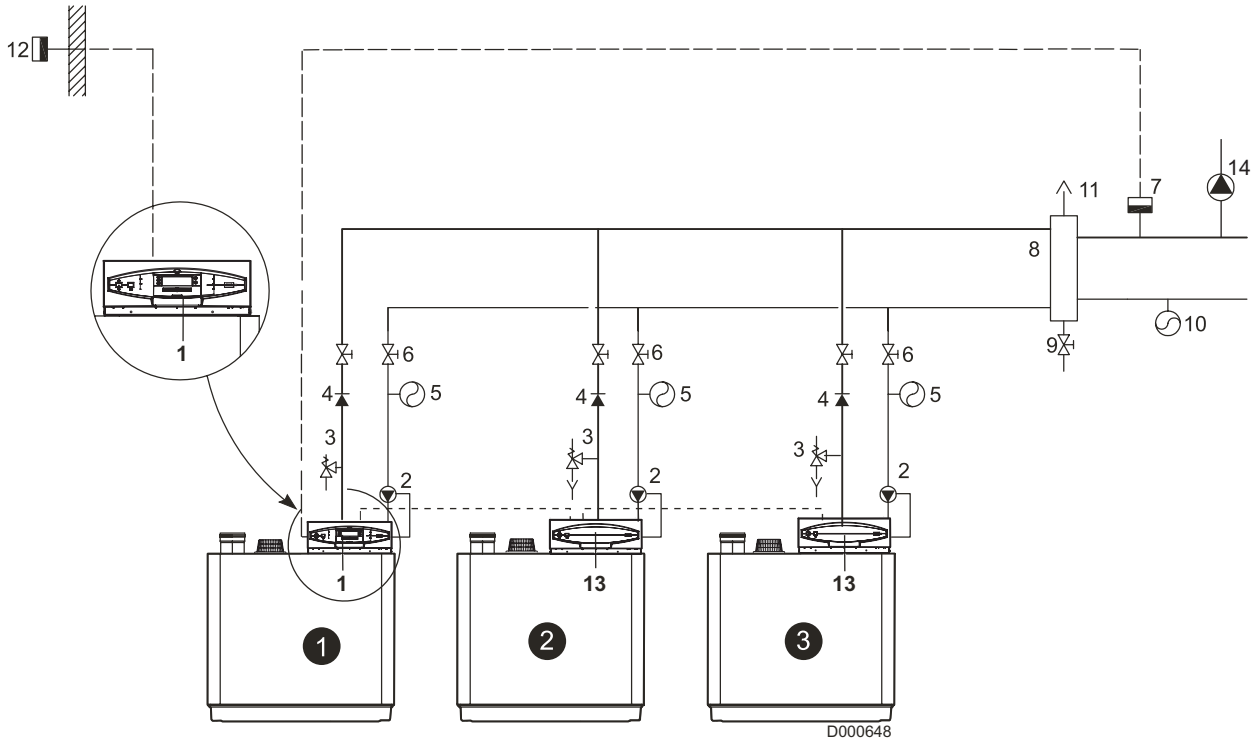


① 230 V
② Injection pump
③ Gate valve
④ Network pump VM (Optional)
⑤ Heating pump circuit A
⑥ 3-way valve - Circuit A
⑦ Outside sensor
⑧ Boiler sensor on common output (Cascade)

■ Setting

Set:

- **#CONFIGURATION**: **E.AUX1: CASC:**
- **#CONFIGURATION**: **S.AUX3: VM PUMP** (Optional)
- Code wheel
  - **0** on Boiler ①
  - **1** on Boiler ②
  - **2** on Boiler ③



1. Master boiler + Control panel DIEMATIC-m3
2. Secondary boiler + Control panel K3
3. Secondary boiler + Control panel K3

1	Control panel DIEMATIC-m3	**8**	Low loss header
2	Injection pump	**9**	Drain cock
3	Safety valve	**10**	Expansion vessel Installation
4	one-way valve	**11**	Automatic air vent
5	Expansion vessel	**12**	Outside sensor
6	Gate valve	**13**	Control panel K3
7	Outlet sensor (Cascade)	**14**	Network pump VM (Optional)

- Injection pump connected to the boiler pump outlet.
- Gate valve connected to the gate valve outlet.
- Common outlet sensor to be connected to the E.AUX1 input on boiler ①.
  Set:
  #CONFIGURATION: **E.AUX1: CASC:**
- VM **14** network pump (if necessary) connected to outlet ⏵ AUX 3.
  Set:
  #CONFIGURATION: **S.AUX3: VM PUMP**
- Complete cascade system up to 10 boilers

The 14 network pump switches on when at least one DIEMATIC-VM is required for heating.

The cascade outlet sensor can also be connected to inputs E.AUX2 or E.UNIV. To do so:

Set:

▸**#CONFIGURATION**: **E.AUX2: CASC:**

or

▸**#CONFIGURATION**: **E.UNIV: CASC:**

Pump VM **14** can also be connected to outlets ▶ AUX 1 or ▶ AUX 2.

Set:

▸**#CONFIGURATION**: **S.AUX1: VM PUMP**

or

▸**#CONFIGURATION**: **S.AUX2: VM PUMP**

■ Operation

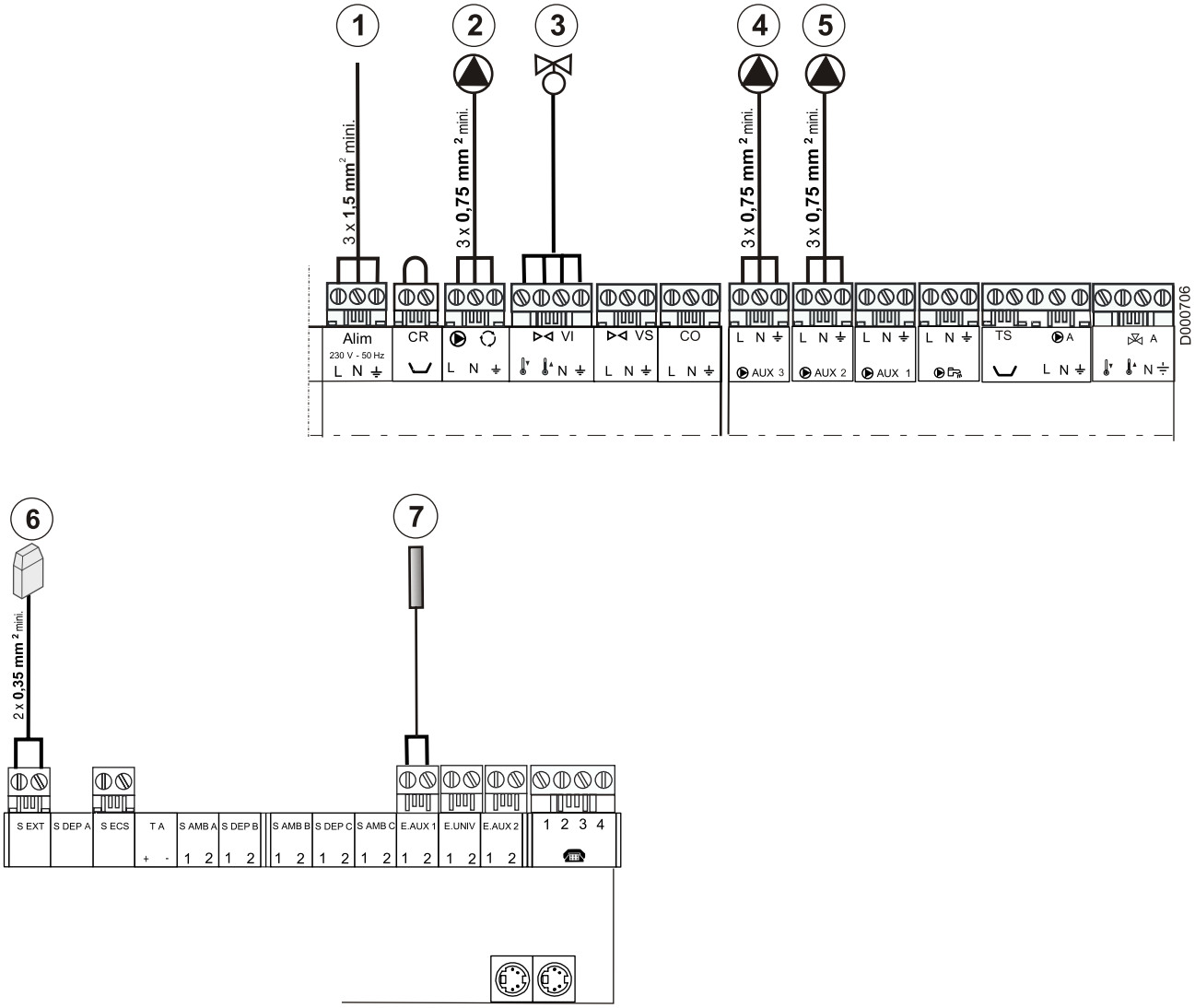
Cascade flow sensor **7** compares its reading with the calculated value. If need be, the master boiler ❶ decides to remove or add boilers.

The boiler pump and/or isolating valve on the master boiler continues to operate as long as a heating request remains on the secondary circuit (Circuits connected to DIEMATIC-m3, K3, VM).

The pumps on the secondary boilers shut down after an adjustable post-operation time.

Installer parameters:
#BOILER: **B.P. DELAY**

■ Cascade installation (Gate valve + Primary pump)



① Power supply 230 V
② Boiler shunt pump
③ Gate valve
④ Auxiliary pump ▶ AUX 3 configured as primary pump
⑤ Network pump VM (Optional)
⑥ Outside sensor
⑦ Boiler sensor on common output (Cascade)

■ Setting

Set:

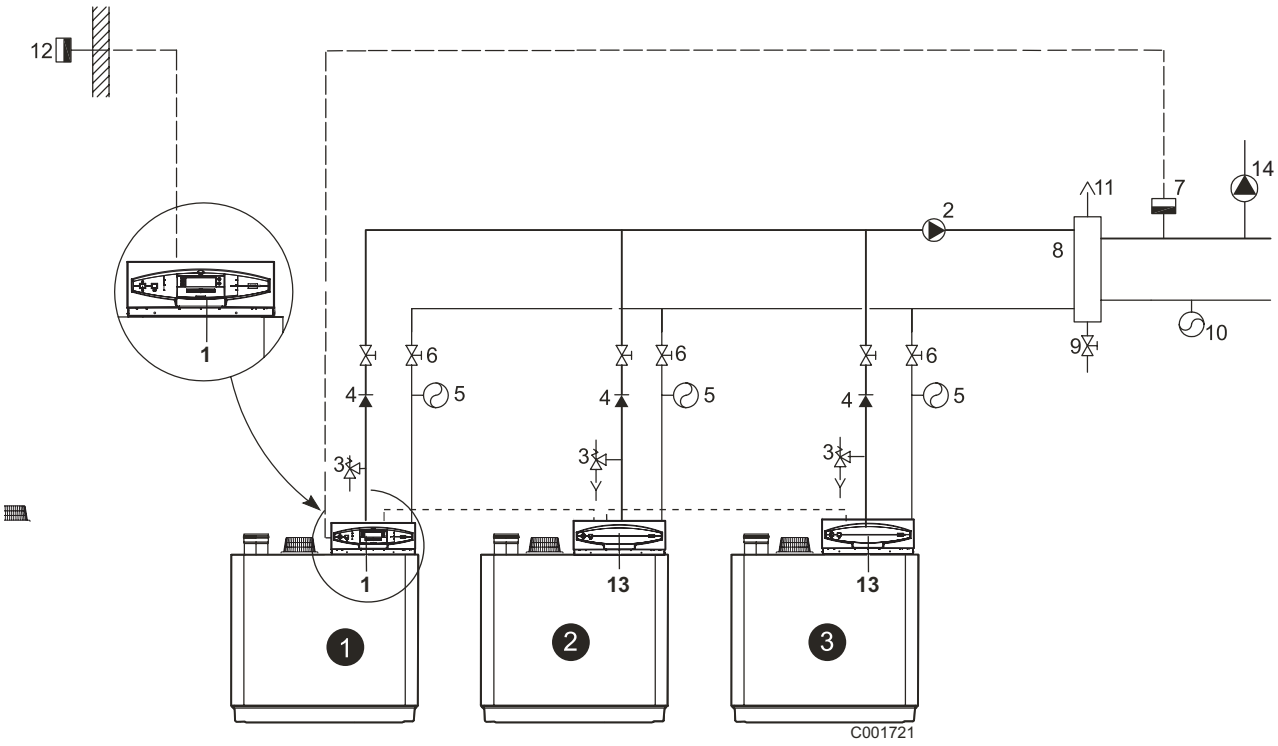
- **#CONFIGURATION**: **E.AUX1: CASC:**
- **#CONFIGURATION**: **S.AUX3: PRIM.P**
- Code wheel

  0 on Boiler ①
  1 on Boiler ②
  2 on Boiler ③

The cascade outlet sensor can also be connected to inputs E.AUX2 or E.UNIV

Set:

- **#CONFIGURATION**: **E.AUX2: CASC:**
- **#CONFIGURATION**: **E.UNIV: CASC:**



1. Master boiler + Control panel DIEMATIC-m3
2. Secondary boiler + Control panel K3
3. Secondary boiler + Control panel K3

1	Control panel DIEMATIC-m3	**8**	Low loss header
2	Primary pump	**9**	Drain cock
3	Safety valve	**10**	Expansion vessel Installation
4	one-way valve	**11**	Automatic air vent
5	Expansion vessel	**12**	Outside sensor
6	Gate valve	**13**	Control panel K3
7	Cascade outlet sensor	**14**	Network pump VM (Optional)

- Primary pump connected to outlet ▶ AUX 3 (1)
- Gate valve connected to the gate valve outlet

(1) Outlet **S.AUX3:** is set in the factory to **PRIM.P**

The primary pump can also be connected to outlets ▶ AUX 1, ▶ AUX 2.

Set:

▸**#CONFIGURATION**: **S.AUX1: PRIM.P**

or

▸**#CONFIGURATION**: **S.AUX2: PRIM.P**

Pump VM **14** can be connected to one of the AUX outlets not used by the primary pump.

Set:

▸**#CONFIGURATION**: **S.AUX1:**, **S.AUX2:**, **S.AUX3:** on **VM PUMP**

■ Operation

Cascade flow sensor **7** compares its reading with the calculated value. If need be, the master boiler ❶ decides to remove or add boilers.

The boiler pump and/or isolating valve on the master boiler continues to operate as long as a heating request remains on the secondary circuit (Circuits connected to DIEMATIC-m3, K3, VM).

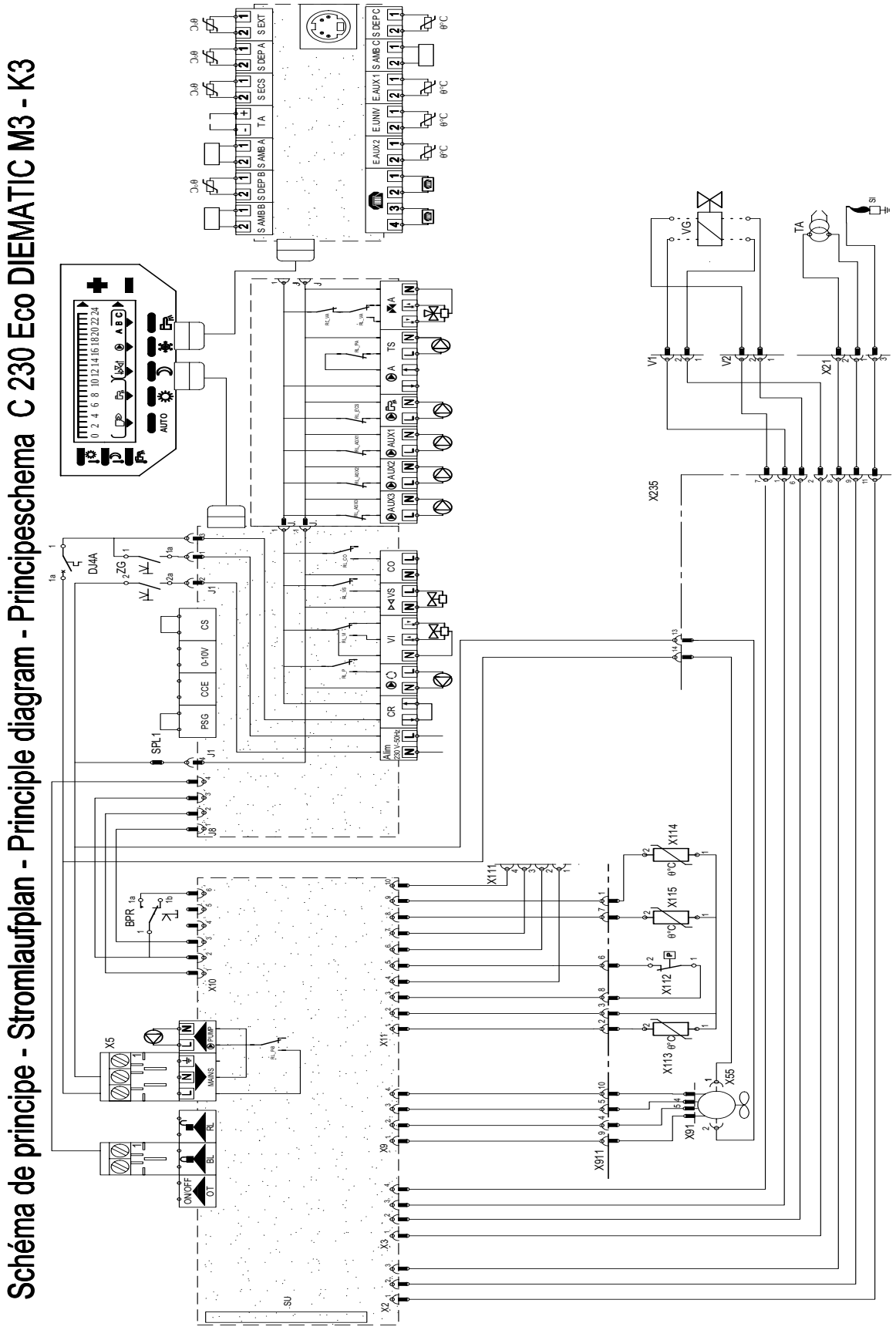
The pumps on the secondary boilers shut down after an adjustable post-operation time.

Installer parameters:
#BOILER: **B.P. DELAY**

The primary pump continues to operate as long as a boiler pump is running.

An ▶ AUX 1, ▶ AUX 2 , ▶ AUX 3 outlet configured as **PRIM.P** on a secondary boiler operates whenever a secondary circuit (A, B, C or ECS) on this boiler is in demand.

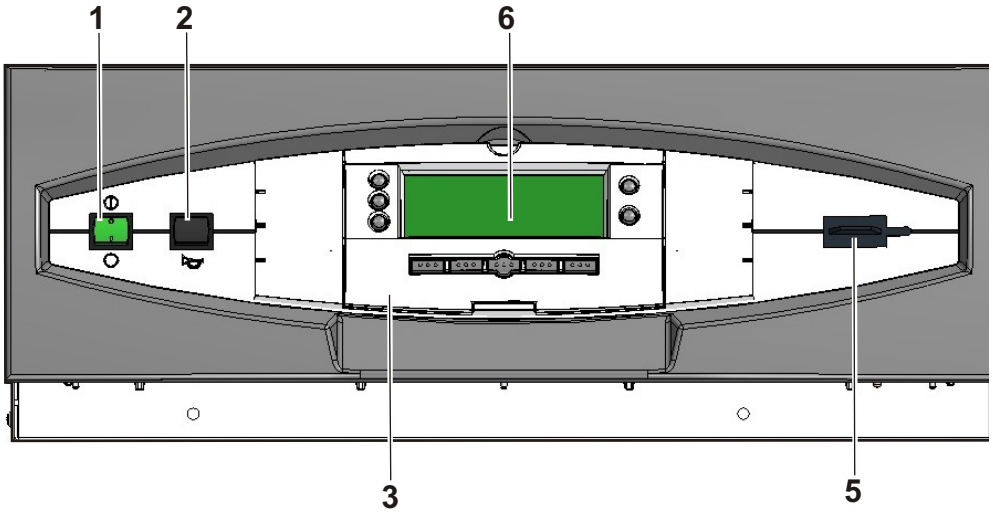
4.4 Skeleton Diagrams

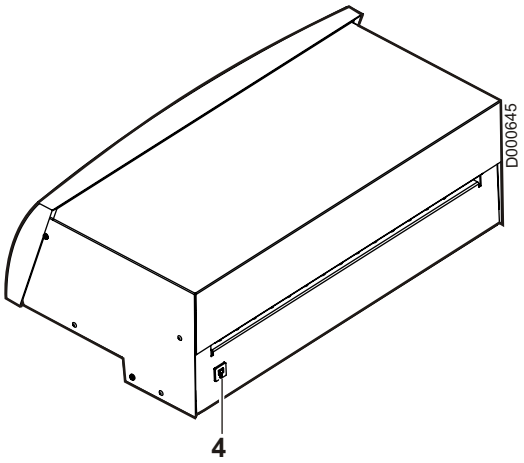


0-10 V	Input
	DHW pump
	Boiler shunt pump
A	Heating pump circuit A
AUX	Auxiliary pump
PUMP	Pump
Alim 230V	230 V main supply 50 Hz
BPR	Push button reset
CCE	Leak proofing system
CO	Flue damper
CR	Relay contact
CS	Safety contact
DJ4A	Circuit breaker
VS	Valve
E AUX 1,2	Auxiliary inlet
E UNIV	Universal inlet
	Telephone relay
J	PCB connector
L	Lane
N	Neutral
A	3 way valve circuit A
PSG	Gas pressure switch
RL AUX	External relay for auxilliary pump
RL CO	Flue damper relay
RL ECS	Dhw pump control relays
RL P	Recycling pump relay
RL PA	Heating pump control relay
RL VA	Three way valve control relay
RL VI	Isolating valve control relay
RL VS	Safety valve relay
S AMB	Room sensor
S DEP	Flow sensor
S ECS	Domestic hot water sensor
S EXT	Outside sensor
SI	Ionization probe
TA	Ignition transformer
TF	Flue gas thermostat
TS	Safety thermostat
V1, V2	Gas valve connectors
VG	Gas valve
VI	Gate valve
X 111	Parameter storage
X 112	Flue gas pressure switch
X 113	Boiler sensor
X 114	Exchanger sensor
X 115	Return sensor
X 235	Control panel connector boiler 230 V
X 911	Control panel connector boiler Low voltage
ZG	General switch

5 Control panel

5.1 Electromechanical components





1. **General ON ⏽ / OFF ◯ switch**
2. **Reset button**
3. **Flap**
4. **Timed circuit breaker (4 A)**
5. **Connector for the programming tool**
6. **Display**

The panel must always be supplied with 230V voltage:

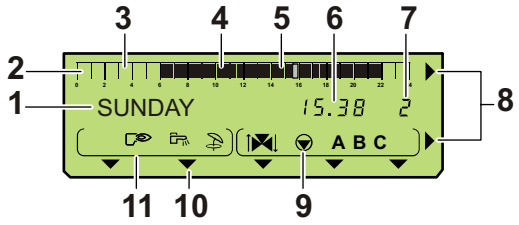
- to ensure the anti-grip of the heating pump,
- to ensure Titan Active System® operation when a titanium anode is protecting the DHW tank.

Furthermore, if an interactive remote control (CDI 2) is connected and the **1** switch is in the off ◯ position, there will be no display on the CDI 2.

See: "Operating mode"

See: "Summer mode"

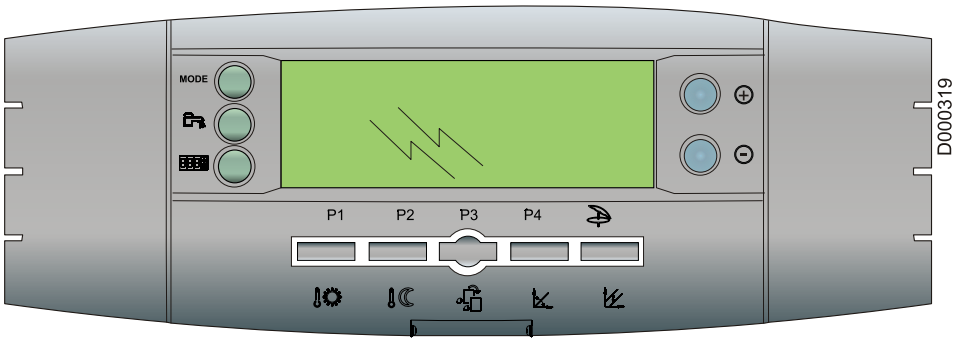
5.2 Display



1	Text and numerical display
2	Graphic display bar for the programme in circuit A, B or C
3	Light area: Reduced temperature heating period or tank load disabled
4	Dark area: Comfort temperature heating period or tank load enabled
5	Flashing cursor showing the current time
6	Number display (current time, adjusted values, parameters, etc.)
7	Number of the boiler for which the parameters are displayed See section 6.1: Access to the parameters of the secondary boilers (Control panel K3) in a cascade
8	The arrows flash when setting values can be modified using the **+** and **-** keys
9	**Circuit operation symbols**
	Opening the 3-way valve
	Closing the 3-way valve
	Displayed circuit pump on
A B C	Name of the circuit displayed
10	Arrows indicating the chosen time programme (P1, P2, P3 or P4) for the circuit displayed, A, B, C, or the activation of the manual summer mode
11	**Symbols indicating that the following inputs/outputs are active**
	DHW load pump on
	Summer mode (Automatic or Manual)
	Burner on switch request

6 Changing the settings

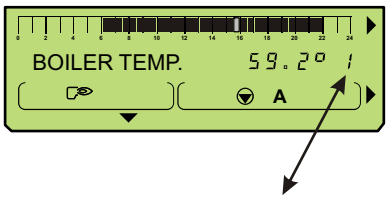
6.1 Keys accessible when the flap is closed



Adjustment keys	
MODE	Various operating modes can be selected by successively pressing key **MODE**: ▸ **AUTOMATIQUE** ▸ **DAY 7/7**: Forced operation at permanent Day temperature ▸ **DAY** (Until midnight): Forced operation at temporary Day temperature ▸ **NIGHT 7/7**: Forced operation at permanent Night temperature ▸ **NIGHT** (Until midnight): Forced operation at temporary Night temperature ▸ **DAYS ANTIFREEZ**: Antifreeze mode for the number of days set ▸ **ANTIFREEZ 7/7**: Permanent antifreeze mode
	Restart key for a DHW calorifier load ▸ **AUTOMATIQUE** ▸ **DHW**: Restarts DHW load until midnight ▸ **DHW 7/7**: DHW load is forced permanently i After a few seconds, the display disappears but the mode is activated.
	Display key for the various counters (number of burner start-ups, number of burner operating hours, etc.)
	Set temperatures Day (Heating / DHW / Pool)
	Set temperatures Night (Heating / DHW)
	Access key to the secondary boilers (Control panel K3) in a cascade i If using only one boiler, this key is inactive.
	Setting the gradients for circuits A, B and C
	Setting the parallel offsets **DECAL.// DEP.A**, **DECAL.// DEP.B** or **DECAL.// DEP.C** for the heating curves on circuits A, B or C. If the Day setting for one of the circuits, A, B or C, is above 30°C, you no longer have access parallel offset on this circuit.
+/-	Adjustment keys

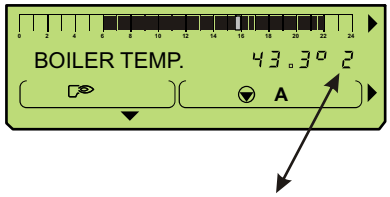
■ Access to the parameters of the secondary boilers (Control panel K3) in a cascade

- **Boiler temperature display on the master boiler**



Number of the boiler for which the parameters are displayed

- **Boiler temperature display on the secondary boiler**



Number of the boiler for which the parameters are displayed

▸ Press the key

The number of the boiler displayed corresponds to the setting on the coding wheel.

Adjustment (Code wheel)	Number of the boiler for which the parameters are displayed	
0	1	Master boiler (Control panel DIEMATIC-m3)
1	2	Secondary boiler (Control panel K3)
2	3	Secondary boiler (Control panel K3)
etc.		

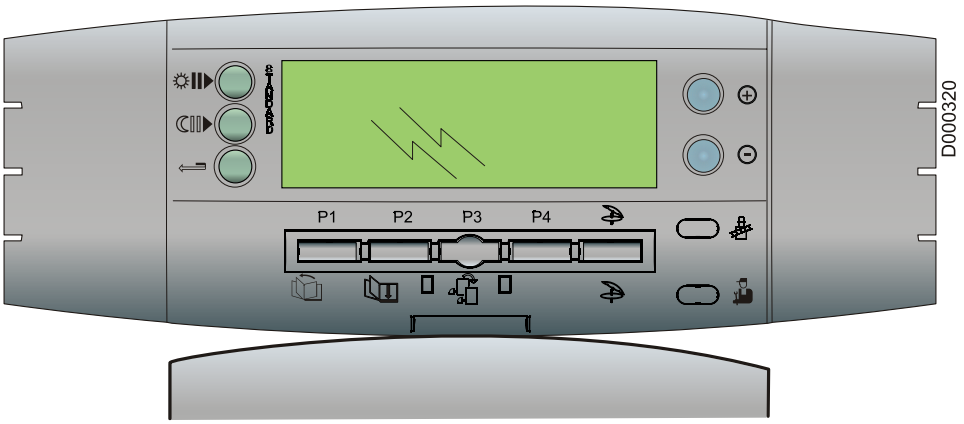
All parameters and measurements on the secondary boilers (Control panel K3) can be accessed with the control panel keys DIEMATIC-m3.

Key is used to transmit all information from the secondary boilers (Control Panel K3) to the master boiler (DIEMATIC-m3 Control Panel).

The parameters on the secondary boilers can be read on the control panel display DIEMATIC-m3.

If no keys are pressed for 10 seconds, the control panel display returns to the master boiler (Number 1).

6.2 Keys accessible when the flap is open



Adjustment keys	
	Enter (per 1/2 hour) the comfort temperature period or tank load enabled (dark area).
	Enter (per 1/2 hour) the reduced temperature period or tank load disabled (light area).
STANDARD	Simultaneously pressing the 2 keys, and , resets all of the time programmes.
	Return key
	Page scrolling
	Line scrolling
	Scroll of boilers connected
	Manual "Summer" shutdown key. The heating is switched off and DHW production is ensured.
	Fitter settings access key
	Sweep key

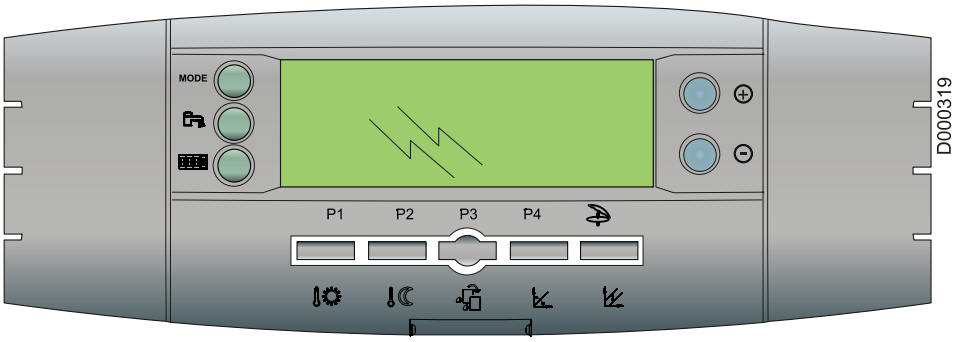
6.2.1 Chimney sweep instructions

■ Setting the boiler output for measuring emissions

- Open the control unit flap.
- Press the key.
- Use keys **+** and **-** to switch from to
  - : Maximum output
  - : Minimum output
- The display alternately shows (every 2 seconds):
  EMISSION MES. 8888 : Fan speed
  EMISSION MES. 88.8° : Boiler temperature
  EMISSION MES. 88.8uA : Ionization current

At the end of the intervention, the regulator goes back into automatic mode after the flap has been closed or after 10 minutes if no key has been pressed.

6.3 Operating mode



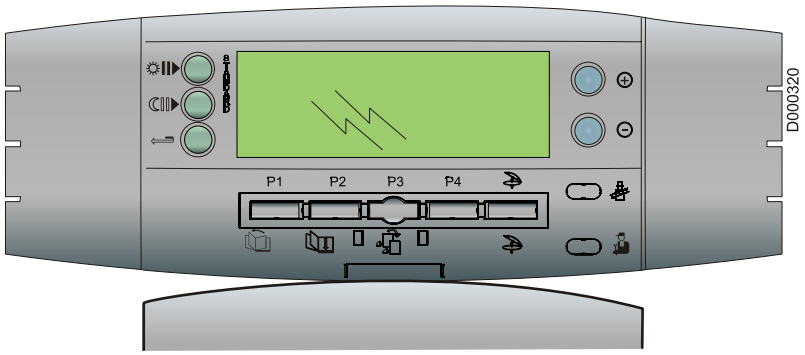
By successively pressing key **MODE**, various heating operating modes can be selected:

AUTOMATIQUE	Heating operates according to the time programmes defined for each circuit. When the automatic mode is chosen, the display shows **AUTOMATIQUE** for 3 seconds. See chapter 6.6: "Selecting a programme"
DAY 7/7 (Permanent) and DAY (Until midnight) = Comfort mode	Heating operates according to the comfort temperature, independently of the time programmes. When these modes are chosen, the display permanently shows **DAY 7/7** or **DAY**.
NIGHT 7/7 (Permanent) and NIGHT (Until midnight) = Reduced mode	Heating operates according to the reduced temperature, independently of the time programmes. When these modes are chosen, the display permanently shows **NIGHT 7/7** or **NIGHT**.
DAYS ANTIFREEZ (temporary) and ANTIFREEZ 7/7 = Antifreeze mode	Heating and domestic hot water production are off but the installation is monitored and protected against frost. When the temporary antifreeze mode is chosen, this is displayed as long as this mode is activated. 1 day is deducted each day at midnight. When the permanent antifreeze mode is selected, the display permanently shows **ANTIFREEZ. 7/7**. The operating mode selected on the remote control dedicated to a circuit takes precedence over the operating mode selected on the boiler for this circuit. The antifreeze mode protects: - The installation if the outside temperature is lower than 3°C (factory setting). - The room temperature if a remote control is connected and the room temperature is lower than 6 °C (factory setting). - The domestic hot water tank if the tank temperature is lower than 4 °C (the water is reheated to 10 °C).

Select the DHW operating mode by successively pressing key :

AUTOMATIQUE	DHW production follows its time programme.
DHW (Until midnight) and DHW 7/7 (Permanent)	Domestic hot water production is enabled, independently of the time programme. The loop pump operates if it is connected to one of the auxiliary outlets, **S.AUX1:**, **S.AUX2:** or **S.AUX3:**, set to **DHW LO.**. The chosen mode is displayed for 3 seconds. To find out the current mode, simply press key **12** 1 time.

6.4 Summer mode



Heating is shut down but continues to be protected against frost.

Domestic hot water production continues to be enabled.

- **Automatic summer regime:**
  activated if the average outside temperature is higher than 22°C (Adjustable). The symbol appears.

  The automatic summer mode is deactivated:
  - If the average outside temperature is lower than 22°C

  and
  - If, among the circuits present (A, B or C), there is at least one circuit without remote control

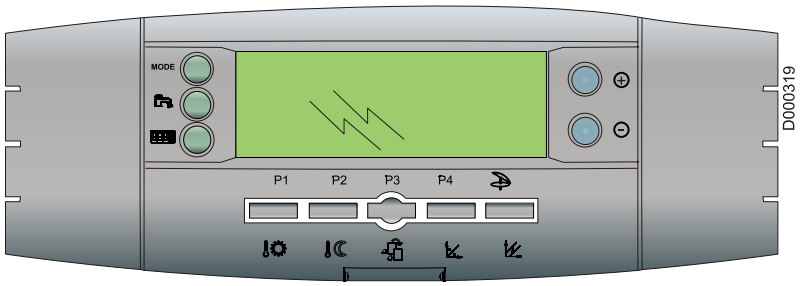
  or
  - If the room temperature is under the day setting of one of the circuits with remote control.

- **Forced "summer" condition:**
  - activated by pressing key for 5 seconds. The symbol appears.
    The antifreeze mode will be cancelled by choosing another operating mode by pressing the grey selection keys .
  - cancelled by pressing key for 5 seconds
    (If the symbol continues to be displayed, the automatic summer mode is activated).

The pumps operate for 1 minute once a week to ensure that they are flushed out.

6.5 Set DHW temperature

■ Heating temperature setting - DHW set temperature - Set temperature for the pool or set temperature for the second DHW tank



Comfort temperature

Reduced temperature

The comfort and reduced temperatures are set separately for each circuit:

- Select the comfort temperature or the reduced temperature for the desired circuit by successively pressing key or .
- Set the temperature using keys **+** or **-**.

End of setting: Press the **MODE** key.

The graphic bar displays the heating programme for the displayed circuit for the current day.

■ Slope

Temperature	Range of adjustment	Factory setting
CIRC.CURVE A **CIRC.CURVE B** **CIRC.CURVE C**	0 to 4.0	1.5 0.7 0.7

■ Comfort temperature .

Temperature	Range of adjustment	Factory setting
DAY TEMP. A **DAY TEMP. B** **DAY TEMP. C**	5 to 90 °C In steps of 0.5°C	20 °C
SWIM.P. T.A **SWIM.P. T.B** **SWIM.P. T.C**	**:AF** Antifreeze 0.5 to 39 °C In steps of 0.5°C	20 °C
WATER T. DAY **WATER T. DAY 2** * **SUN DHW TEMP.**	10 to 80 °C In steps of 1°C	55 °C

* Connection of a second domestic hot water tank

- **With a solar domestic hot water tank**:
  For maximum operation, choose a solar setting higher than the DHW setting (For example 60°C for solar powered DHW and 45°C for DHW.

During the loading of solar powered domestic hot water in the preparer, the message **SUN LOADING** appears alternating with the date and the boiler temperature.

■ Reduced temperature

Temperature	Range of adjustment	Factory setting
NIGHT TEMP. A **NIGHT TEMP. B** **NIGHT TEMP. C**	5 to 90 °C In steps of 0.5°C	16 °C
WATER T.NIGHT **WATER T.NIGHT2** *	10 to 80 °C In steps of 1°C	10 °C

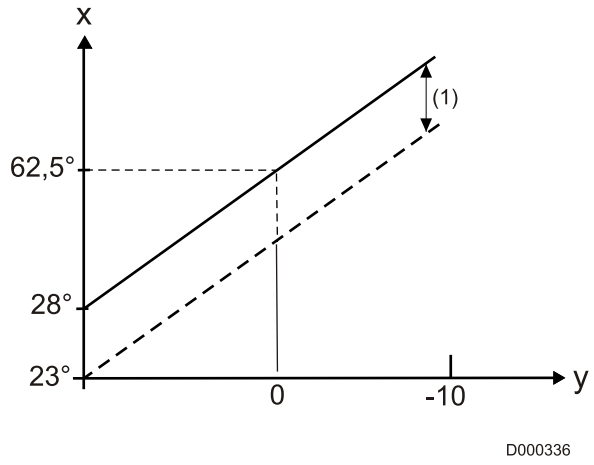
***** Connection of a second domestic hot water tank

■ Setting the parallel offsets DECAL.// DEP.A, DECAL.// DEP.B or DECAL.// DEP.C for the heating curves on circuits A, B or C

Temperature	Range of adjustment	Factory setting
DECAL.// DEP.A **DECAL.// DEP.B** **DECAL.// DEP.C**	0 to 50 °C	1.5 0.7 0.7

If the Day setting for one of the circuits, A, B or C, is above 30°C, you no longer have access parallel offset on this circuit.

■ Heating curve with a DAY setting lower than 30°C



D000336

X : Water flow temperature

Y: Outside temperature

(1): **DECAL.// DEP.B**

DAY TEMP. B = 23 °C

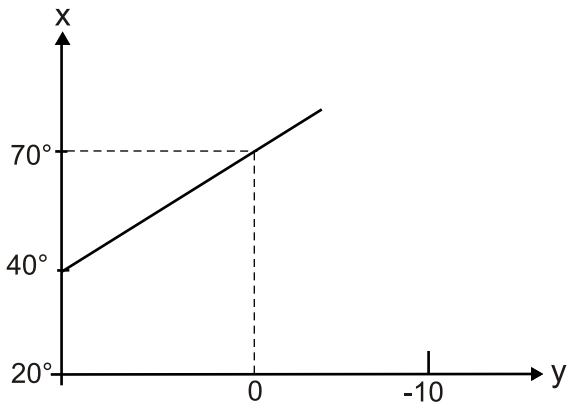
DECAL.// DEP.B = 5 K

CIRC.CURVE B = 1.5

DAY setting for circuits A, B or C < 30 °C :

The **DAY** and **NIGHT** settings are used as room temperature settings. The parallel offset start is used to offset the heating curve (activated in day or night mode).

■ Heating curve with a DAY setting higher than 30°C (BCT)



D000337

X : Water flow temperature

Y: Outside temperature

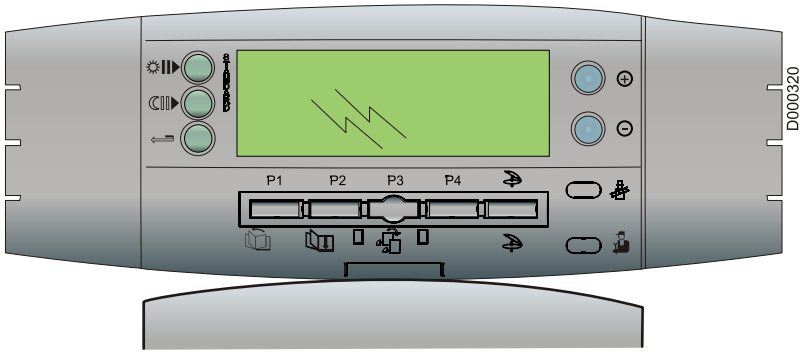
DAY TEMP. B = 40 °C

CIRC.CURVE B = 1.5

DAY setting for circuits A, B or C > 30 °C :

The **DAY** and **NIGHT** settings are used as the curve base temperature (day or night) at 20°C outside. The parallel offset start on the circuit concerned is no longer accessible. To deactivate the curve base temperature function, set the **NIGHT** parameter in the **#SECONDARY** menu to **STOP**.

6.6 Selecting a programme



■ Selecting a programme

The DIEMATIC-m3 control unit includes 4 heating programmes:

- 1 fixed programme **P1**, activated in the factory.
- 3 custom programmes **P2, P3, P4** to adapt to the lifestyle of the occupants.

Allocation of a programme to a circuit:

- ▸ Select the circuit using the key .
- ▸ Select programme P1, P2, P3 or P4 with the **+/-** keys.

An arrow appears above the programme chosen.

The programme selected is active in automatic mode.

The programme for the current day can be displayed on the graph bar using key or .

.

Programme	Day	Comfort periods
P1	Monday - Sunday	6 hours - 22 hours
P2 (Factory setting)	Monday - Sunday	4 hours - 21 hours
P3 (Factory setting)	Monday - Friday	5 hours - 8 hours 16 hours - 22 hours
	Saturday, Sunday	7 hours - 23 hours
P4 (Factory setting)	Monday - Friday	6 hours - 8 hours 11 hours - 13 hours30 16 hours - 22 hours
	Saturday	6 hours - 23 hours
	Sunday	7 hours - 23 hours

■ Hot water programme

The DIEMATIC-m3 control unit includes a custom domestic hot water programme.

Programme	Day	Filling enabled
Tank (Factory setting)	Monday - Sunday	5 hours - 22 hours

The programme for the current day can be displayed on the graph bar using key .

■ Auxiliary programme

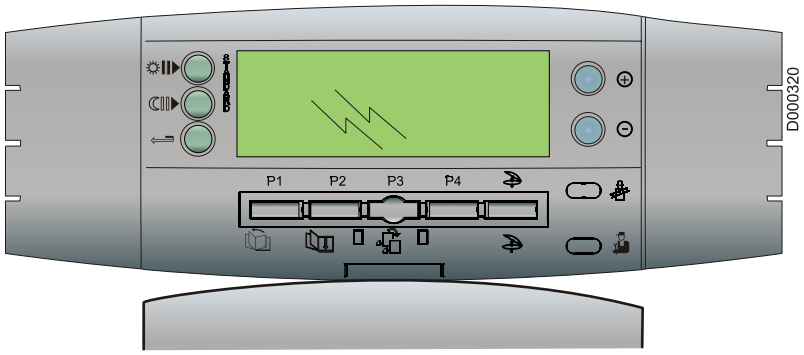
The DIEMATIC-m3 control unit includes a custom programme on the auxiliary outlet.

Programme	Day	Filling enabled
AUX (Factory setting)	Monday - Sunday	6 hours - 22 hours

■ Customising the programmes

See: "User" settings - Customised programming

6.7 "User" settings



Key for access to setting and measurements	
	Page scrolling
	Line scrolling

Programming keys	
	Enter (per 1/2 hour) the comfort temperature period or tank load enabled (dark area)
	Enter (per 1/2 hour) the reduced temperature period or tank load disabled (light area)
	Return key

■ Measurements

The **#MEASURES** paragraph is used to read the measurements of the connected sensors:

Press	Display	Measurements
	#MEASURES	**Allows the values below to be read**
	BOILER TEMP.	Boiler water temperature
	BACK TEMP	Return temperature
	TEMP.EXCHANGE	Exchanger water temperature
	OUTLET TEMP. A *	Water temperature in circuit A
	OUTLET TEMP. B *	Water temperature in circuit B
	OUTLET TEMP. C *	Water temperature in circuit C
	CASCADE TEMP. *	Cascade temperature
	WATER TEMP. *	Tank water temperature
	DHW1 DOWN TEMP. *	Domestic hot water temperature - Tank 1
	DHW2 DOWN TEMP. *	Domestic hot water temperature - Tank 2
	SUN DHW TEMP. *	Solar powered domestic hot water tank water temperature
	ROOMTEMP. A *	Room temperature A
	SWIM.P. T.A *	Pool temperature Circuit A
then	**SWIM.P. T.B** *	Pool temperature Circuit B
	SWIM.P. T.C *	Pool temperature Circuit C
	DHW 2 TEMP. *	Temperature of the second domestic hot water tank
	ROOMTEMP. B *	Room temperature B
	ROOMTEMP. C *	Room temperature C
	OUTSIDE TEMP.	Outside temperature
	STOR.TANK.TEMP *	Hot water storage tank temperature
	SOL TEMP *	Solar panel temperature
	AUX1.TEMP *	Temperature of the sensor connected to input E.AUX 1
	AUX2.TEMP *	Temperature of the sensor connected to input E.AUX 2
	UNIV.TEMP *	Temperature of the sensor connected to input E.UNIV
	CURRENT(uA)	Measurement of the ionization current
	SPEED B.(RPM)	Display of the current fan speed
	POWER	Display of the current boiler output
	IN 0-10V *	Voltage at input 0-10 V
	CTRL	Information reserved for the technician

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

■ Factory programmes

See: "Selecting a programme"

■ Resetting the programmes

▶Press keys MODE and simultaneously.

All customised programmes are replaced with their factory setting.

Programme P1 is assigned to all heating circuits.

■ Customised programming

▶Select programme P1, P2, P3 or P4 with the **+/-** keys.

#PROG. CIRC.A

Day	Comfort periods			
	P1	P2	P3	P4
Monday	6 to 22 hours			
Tuesday	6 to 22 hours			
Wednesday	6 to 22 hours			
Thursday	6 to 22 hours			
Friday	6 to 22 hours			
Saturday	6 to 22 hours			
Sunday	6 to 22 hours			

#PROG. CIRC.B

Day	Comfort periods			
	P1	P2	P3	P4
Monday	6 to 22 hours			
Tuesday	6 to 22 hours			
Wednesday	6 to 22 hours			
Thursday	6 to 22 hours			
Friday	6 to 22 hours			
Saturday	6 to 22 hours			
Sunday	6 to 22 hours			

#PROG. CIRC.C

Day	Comfort periods			
	P1	P2	P3	P4
Monday	6 to 22 hours			
Tuesday	6 to 22 hours			
Wednesday	6 to 22 hours			
Thursday	6 to 22 hours			
Friday	6 to 22 hours			
Saturday	6 to 22 hours			
Sunday	6 to 22 hours			

#PROG. DHW: Domestic hot water

Day	Filling enabled
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

#PROG. AUXIL: Programming the auxiliary outlet

Day	Authorised operation
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

Press	Display	Parameter set	Factory setting
then	**#PROG. CIRC.A *** **P1, P2, P3, P4** ▸ Select programme P1, P2, P3 or P4 with the **+/-** keys.	Heating programme for circuit A if used	See: "Selecting a programme"
	PROG EVERY DAY		
	PROG MONDAY		
	PROG TUESDAY		
	PROG WEDNESDAY		
	PROG THURSDAY		
	PROG FRIDAY		
	PROG SATURDAY		
	PROG SUNDAY		
then	**#PROG. CIRC.B *** **P1, P2, P3, P4** ▸ Select programme P1, P2, P3 or P4 with the **+/-** keys.	Heating programme for circuit B if used	See: "Selecting a programme"
		Lines as circuit A	
then	**#PROG. CIRC.C *** **P1, P2, P3, P4** ▸ Select programme P1, P2, P3 or P4 with the **+/-** keys.	Heating programme for circuit C if used	See: "Selecting a programme"
		Lines as circuit A	

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

PROG EVERY DAY enables simultaneous programming of each day of the week. Each day can subsequently be individually modified.

When this operation is finished, the data are saved after 2 minutes or when key **MODE** is pressed.

Press	Display	Parameter set	Factory setting	Range of adjustment
then	**#PROG. DHW ***		5 hours - 22 hours	
	PROG EVERY DAY			
	PROG MONDAY			
	PROG TUESDAY			
	PROG WEDNESDAY			
	PROG THURSDAY			
	PROG FRIDAY			
	PROG SATURDAY			
	PROG SUNDAY			
then	**#PROG. AUXIL ***		6 hours - 22 hours	
	PROG EVERY DAY			
	PROG MONDAY			
	PROG TUESDAY			
	PROG WEDNESDAY			
	PROG THURSDAY			
	PROG FRIDAY			
	PROG SATURDAY			
	PROG SUNDAY			
then	**#ANNUAL PROG**			
	STOP N 1:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 01	Setting start date of the stop 1	1-31	
	BEG.MONTH N 01	Setting start month of the stop 1	1-12	
	END DATE N 01	Setting end date of the stop 1	1-31	
	END MONTH N 01	Setting end month of the stop 1	1-12	
	STOP N 2:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 02	Setting start date of the stop 2	1-31	
	BEG.MONTH N 02	Setting start month of the stop 2	1-12	
	END DATE N 02	Setting end date of the stop 2	1-31	
	END MONTH N 02	Setting end month of the stop 2	1-12	
	STOP N 3:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 03	Setting start date of the stop 3	1-31	
	BEG.MONTH N 03	Setting start month of the stop 3	1-12	
	END DATE N 03	Setting end date of the stop 3	1-31	
	END MONTH N 03	Setting end month of the stop 3	1-12	
	STOP N 4:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 04	Setting start date of the stop 4	1-31	
	BEG.MONTH N 04	Setting start month of the stop 4	1-12	
	END DATE N 04	Setting end date of the stop 4	1-31	
	END MONTH N 04	Setting end month of the stop 4	1-12	

Press	Display	Parameter set	Factory setting	Range of adjustment
	STOP N 5:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 05	Setting start date of the stop 5	1-31	
	BEG.MONTH N 05	Setting start month of the stop 5	1-12	
	END DATE N 05	Setting end date of the stop 5	1-31	
	END MONTH N 05	Setting end month of the stop 5	1-12	
	STOP N 6:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 06	Setting start date of the stop 5	1-31	
	BEG.MONTH N 06	Setting start month of the stop 5	1-12	
	END DATE N 06	Setting end date of the stop 5	1-31	
	END MONTH N 06	Setting end month of the stop 5	1-12	
	STOP N 7:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 07	Setting start date of the stop 5	1-31	
	BEG.MONTH N 07	Setting start month of the stop 5	1-12	
	END DATE N 07	Setting end date of the stop 5	1-31	
then	**END MONTH N 07**	Setting end month of the stop 5	1-12	
	STOP N 8:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 08	Setting start date of the stop 5	1-31	
	BEG.MONTH N 08	Setting start month of the stop 5	1-12	
	END DATE N 08	Setting end date of the stop 5	1-31	
	END MONTH N 08	Setting end month of the stop 5	1-12	
	STOP N 9:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 09	Setting start date of the stop 5	1-31	
	BEG.MONTH N 09	Setting start month of the stop 5	1-12	
	END DATE N 09	Setting end date of the stop 5	1-31	
	END MONTH N 09	Setting end month of the stop 5	1-12	
	STOP N 10:	Selection of the circuit stopped	**NO**	**NO**, **ALL**, **ABC**, **AC**, **AC+W**, **BC**, **BC+W**, **A**, **B**, **C**
	BEG.DATE N 10	Setting start date of the stop 5	1-31	
	BEG.MONTH N 10	Setting start month of the stop 5	1-12	
	END DATE N 10	Setting end date of the stop 5	1-31	
	END MONTH N 10	Setting end month of the stop 5	1-12	

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

When this operation is finished, the data are saved after 2 minutes or when key **MODE** is pressed.

■ Setting an annual clock

The annual clock is used to programme up to 10 heating stop periods over one year.

The circuits selected for this stop are in Antifreeze mode during the period chosen.

See: "Operating mode"

- Use key to select the paragraph **#ANNUAL PROG.**.
- Use key to select one of the 10 stop periods available.

See: "User" settings

- Select the circuit(s) concerned by the stop using the **+/-** key

NO	= No stop
ALL	= Circuit A, B, C and DHW
ABC	= Circuit A, B, C
AC	= Circuit A, C
AC+W	= Circuit A, C and DHW
BC	= Circuit B, C
BC+W	= Circuit B, C and DHW
A	= Circuit A
B	= Circuit B
C	= Circuit C

- Set the start date and end date of the stop selected using keys then **+** or **-**.
  To deactivate a stop, simply select the stop and set to **NO**.
- Select another stop using key .

Annual programme (Factory setting)

Stop no.	Circuit concerned	Start date	End date
1	**NO**	01-11	10-11
2	**NO**	20-12	02-01
3	**NO**	20-02	05-03
4	**NO**	20-04	05-05
5	**NO**	01-07	31-08
6	**NO**	01-01	01-01
7	**NO**	01-01	01-01
8	**NO**	01-01	01-01
9	**NO**	01-01	01-01
10	**NO**	01-01	01-01

For example: Customised programming

Stop no.	Circuit concerned	Start date	End date
1	**AC**	01-11	10-11
2	**AC**	20-12	02-01

If setting **STOP**: **NO**, the stop is deactivated and the start and end dates are not displayed.

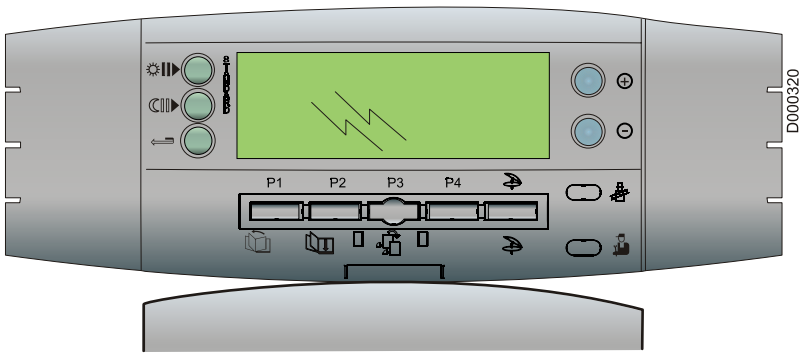
■ Table of "User" setting

Press	Display		Parameter set	Factory setting	Range of adjustment	Customer setting
then	**#SETTING**		The parameters are set using keys + or −.			
	CONTRAST DISP.		Allows the display contrast to be set using keys + and −			
	BACK LIGHT:		Lighting is permanent if the circuit is on comfort period.	**ON**	**ON** or **OFF ECO**	
	DSP	**ALTERNATED**	Alternate display of the two preceding displays.	**ALTERNATED**	**ALTERNATED TIME - DAY BOILER. T.**	
		TIME - DAY	Permanent time display.			
		BOILER. T.	Permanent temperature display.			
	PERMUT *	**AUTO**	Used to change the activation order of the cascade every 7 days.	**AUTO**	**AUTO**, 1, 2, ...10	
	SUM/WIN		Non heating exterior temperature	22 °C	15 to 30 °C, **OFF**	
	CALIBR. OUT		Outside sensor calibration	0.0	-5.0 to +5.0 °C	
	CALIBR. ROOM A *		Calibration of the room sensor on circuit A	0.0	-5.0 to +5.0 °C	
	OFFSET ROOM A *		Room offset on circuit A (If no room sensor is connected)	0.0	-5.0 to +5.0 °C	
	ANTIFR. ROOM A *		Room temperature antifreeze activation on circuit A	6 °C	0.5 to 20 °C	
	CALIBR. ROOM B *		Lines as circuit A	0.0	-5.0 to +5.0 °C	
	OFFSET ROOM B *		Lines as circuit A	0.0	-5.0 to +5.0 °C	
	ANTIFR. ROOM B *		Lines as circuit A	6 °C	0.5 to 20 °C	
	CALIBR. ROOM C *		Lines as circuit A	0.0	-5.0 to +5.0 °C	
	OFFSET ROOM C *		Lines as circuit A	0.0	-5.0 to +5.0 °C	
	ANTIFR. ROOM C *		Lines as circuit A	6 °C	0.5 to 20 °C	

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

When this operation is finished, the data are saved after 2 minutes or when key **MODE** is pressed.

■ Adjustment



▸ SUM/WIN

Used to set the outside temperature above which heating will be shut down.

- The heating pumps are shut down.
- The burner will only start for domestic hot water needs.
- The symbol appears.

If this parameter is set to NO, heating will never be shut down automatically.

▸ CALIBR. OUT: Outside sensor calibration

Used to correct the outside temperature.

For example: Actual outside temperature = 10°C

Temperature displayed = 11°C : Set **CALIBR. OUT** to -1.

▸ CALIBR. ROOM...: Room calibration (With room sensor)

Used to correct the room temperature.

For example: Set DHW temperature = 20°C

Temperature displayed = 19°C : Set the **CALIBR. OUT** to +1

Make this setting 2 hours after switching on, when the room temperature has stabilised.

▸ AMB OFFSET...: Room offset (Without room sensor)

Is used to set a room offset.

For example: Set DHW temperature = 20°C

Measured temperature = 19°C : Set **OFFSET ROOM** to +1.

Make this setting 2 hours after switching on, when the room temperature has stabilised.

▸ ANTIFR. ROOM...: Room antifreeze (With room sensor)

Used to set the room temperature maintained in antifreeze mode for each circuit.

■ Clock settings

Press	Display	Parameter set	Factory setting	Range of adjustment	Customer setting
then	**#TIME . DAY**	The parameters are set using keys **+** or **-**.			
	HOURS				
	MINUTE				
	DAY				
	MONTH				
	DATE				
	YEAR				
	SUM. TIME:	**AUTO**: automatic switch to summer time on the last Sunday in March and back to winter time on the last Sunday in October. **MANU**: for countries where the time change is done on other dates or is not in use.	**AUTO**	**AUTO or MANU**	

When this operation is finished, the data are saved after 2 minutes or when key **MODE** is pressed.

■ Clock calibration

You can also adjust the clock on your DIEMATIC-m3 if incorrect.

Press	Display	Parameter set	Factory setting	Range of adjustment
+ and	**CALIBRA.CLOCK**	Clock calibration	+ 1,5	-2.5 to +5.0

▸ **+** and

The value that you set is the value displayed after pressing keys **+** and less the number of minutes that the DIEMATIC-m3 gains or loses every month.

▸ Close the flap.

▸ Switch off the control panel and switch it back on again.

For example:

The DIEMATIC-m3 gains 2 minutes a month.

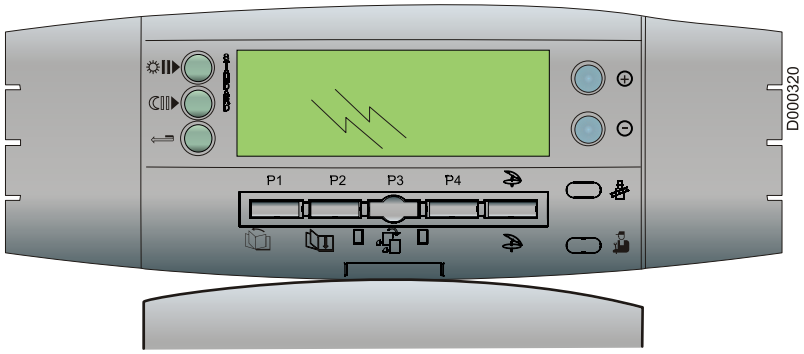
▸ **1.5** is displayed after pressing keys **+** and .

▸ **Value to be set**: 1.5 - 2 = **- 0.5**

6.8 "Installer" settings

These actions must be carried out by a qualified technician.

The various settings and programmes are saved even when the power supply is cut off.



- Open the DIEMATIC flap.
- Press key for 5 seconds.

  Page scrolling

  Line scrolling

To restore the factory settings of the parameters (user and fitter level) without modifying the time programmes, press keys and simultaneously.

RESET PARAM is displayed for 3 seconds. This function does not affect the hourly or impulse meters.

■ Installer parameters

Press	Display		Parameter set	Factory setting	Range of adjustment	Customer setting
5 seconds then	#CONFIGURATION					
	TYPE:			.....	C230-85L C230-130L C230-170L C230-210L C230-85H C230-130H C230-170H C230-210H	
	CIRC. A:			DIRECT	DISAB. DIRECT 3WV DIRECT+ 3WV+ SWIM.	
	CIRC. B: **			3WV	3WV DIRECT+ 3WV+ SWIM. DIRECT	
	CIRC. C: **			3WV	3WV DIRECT+ 3WV+ SWIM. DIRECT	
	STOR.T.SENS **			OFF	OFF ON	
	SUN **			OFF	OFF ON	
then	DHW 2 **			OFF	OFF ON	
	S.AUX1: **			PROGRAM.	PROGRAM. PRIM.P VM PUMP DHW LO. FAILURE	
	S.AUX2: **			DHW LO.	PRIM.P VM PUMP DHW LO. DHW LO2 FAILURE	
	S.AUX3: **			PRIM.P	PRIM.P VM PUMP DHW LO. DHW LO2 FAILURE	
	E.AUX1: **			DISAB.	DISAB. TAM A TAM B TAM C TAM AUX CASC:	
	E.AUX2: **			DISAB.	DISAB. TAM A TAM B TAM C TAM AUX CASC: DHW + DHW2 +	

Press	Display		Parameter set	Factory setting	Range of adjustment	Customer setting
	E.UNIV: **			**DISAB.**	**DISAB.** **TAM A** **TAM B** **TAM C** **TAM AUX** **CASC:** **DHW +** **DHW2 +**	
	CASC: **		Operation in cascade	**CLASSIC**	**CLASSIC** **PARA**	
then	**PARALLEL CASC. ****		Outside temperature triggering all stages in parallel mode	10 °C	-10 to 20 °C	
	O. TEL: **	**FAILURE**	The telephone outlet is closed in the event of sensor failure			
		REVISION	The telephone outlet is closed in the event of revision display	**FAILURE**	**FAILURE** **REVISION** **DEF+REV**	
		DEF+REV	The telephone outlet is closed in the event of sensor failure or revision display			
	I.TEL: **	**ANTIFR**	Start anti-freeze in boiler command	**ANTIFR**	**ANTIFR** **DHW+HEAT** **HEAT** **DHW**	
	CT.TEL: **	**OPEN**	Telephone input activates if the contact is open	**CLOSE**	**OPEN** **CLOSE**	
		CLOSE	Telephone activates if the contact is closed			
	TAS **		Activation of the Titan Active System® function	**NO**	**ON/NO**	
then	**#LANGUAGE**		**Language selection using keys + or -**			
	FRANCAIS			**FRANCAIS**	(1)	

Press	Display		Parameter set	Factory setting	Range of adjustment	Customer setting
	#LIMITED TEMP.		**Setting the temperature limits using keys + or -**			
	BOILER MAX		Maximum boiler temperature and boiler setting if producing domestic hot water.	85 °C	50 to 120 °C	
	BOILER MIN		Minimum boiler temperature	10 °C	10 to 50 °C	
	PRIM.TEMP.DHW *		Boiler temperature setting if producing domestic hot water	75 °C	50 to 90 °C	
	MAX.R.HEAT(%)		Maximum boiler output during heating	100%	19 - 100%	
	MAX.DHW(%)		Maximum boiler output in DHW	100%	19 - 100%	
	MAX. CIRC. A *		Maximum outlet temperature (Circuit A)	85 °C	20 to 120 °C	
	FL.DRY. A *		Drying the floor (Circuit A)	**OFF**	**OFF** or 20 to 55 °C	
then	**MIN. CIRC. A** *		Minimum outlet temperature activated by the installation's antifreeze function (Circuit A)	20 °C	10 to 50 °C	
	MAX. CIRC. B *		Maximum outlet temperature (Circuit B)	50 °C	20 to 120 °C	
	FL.DRY. B *		Drying the floor (Circuit B)	**OFF**	**OFF** or 20 to 55 °C	
	MIN. CIRC. B *		Minimum outlet temperature activated by the installation's antifreeze function (Circuit B)	20 °C	10 to 50 °C	
	MAX. CIRC. C *		Maximum outlet temperature (Circuit C)	50 °C	20 to 120 °C	
	FL.DRY. C *		Drying the floor (Circuit C)	**OFF**	**OFF** or 20 to 55 °C	
	MIN. CIRC. C *		Minimum outlet temperature activated by the installation's antifreeze function (Circuit C)	20 °C	10 to 50 °C	
	OUT.ANTIFREEZE		Outside temperature activating the installation's antifreeze function	+ 3 °C	- 8 to + 10 °C	

Press	Display		Parameter set	Factory setting	Range of adjustment	Customer setting
	#BOILER		**Setting the boiler parameters**			
	NB STAG.DHW 1 *			**NB STAG.DHW 1**	**NB STAG.DHW 20 DHW:BOILER1 NB STAG.DHW 1**	
	IN 0-10V		Activating the control at 0-10 V	**OFF**	**OFF/:TEMP./ :POWER**	
	VMIN/OFF 0-10V *		Voltage corresponding to the instruction set minimum	0.5 V	0 to 10 V	
	VMAX 0-10V *		Voltage corresponding to the instruction set maximum	10 V	0.5 to 10 V	
	CONS.MIN 0-10V *		Instruction minimum set temperature or Output	5 °C or %	0 to 100 °C or %	
	CONS.MAX 0-10V *		Maximum set temperature or Output	100 °C or %	5 to 100 °C or %	
	BURN.MIN.RUN		Setting the burner minimum operation time	1 minutes	0 to 4 minutes	
	HYSTERESIS A *		Cascade stage start-up / shutdown differential	4 K	4 to 10 K	
	BURNER DELAY		Burner timing	4 minutes	1 to 10 minutes	
	B.P. DELAY *		Timing of the boiler pump shutdown if using a cascade	3 minutes	1 to 30 minutes	
	MAX.VENT.		Maximum rotation speed (Fan)	See table below		
	MIN.VENT.		Minimum rotation speed (Fan)			
	ST.VENT.		Rotation at start-up (Fan)			
	KIT CCE		Leak proofing system 0 = Not active 1 = Active	0	0 or 1	
	INPUT CS		Configuration of the **CS** inlet: 2: Blockage (Boiler shutdown during the period in which the **CS** contract is open) 3: Lock-out (Boiler safety lock-out when the **CS** contact is opened) Needs resetting to restart the boiler.	2	2 or 3	
	MAX ANTICYCLIN		Maximum burner shutdown time to guarantee the anti short cycle	10	0 to 10 minutes	

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

**** In a cascade installation, the line is not displayed for the secondary boilers.**

(1) Français - Deutsch - English - Polski - Italiano - Español - Nederlands - Русский - Türkçe

At the end of the intervention, the data is stored after 2 minutes or by closing the flap.

Fan speed Gas H		C230-85H	C230-130H	C230-170H	C230-210H
MAX.VENT.	rpm	5100	6400	4800	5700
MIN.VENT.	rpm	1200	1300	1000	1200
ST.VENT.	rpm	1700	1700	1700	1700
Range of adjustment min. - max		1000 - 5400	1000 - 6700	1000 - 5000	1000 - 6000
Fan speed Gas L		**C230-85L**	**C230-130L**	**C230-170L**	**C230-210L**
MAX.VENT.	rpm	5400	6500	4800	5800
MIN.VENT.	rpm	1200	1300	1000	1200
ST.VENT.	rpm	1700	1700	1700	1700
Range of adjustment min. - max		1000 - 5700	1000 - 6800	1000 - 5000	1000 - 6100
Fan speed Propane gas		**C230-85GPL**	**C230-130GPL**	**C230-170GPL**	**C230-210GPL**
MAX.VENT.	rpm	5100	6500	6000	5500
MIN.VENT.	rpm	1200	1300	1500	1300
ST.VENT.	rpm	1700	1700	2200	2200
Range of adjustment min. - max		1000 - 5400	1000 - 6700	1000 - 6300	1000 - 6000

■ Range of adjustment (Explanations)

Parameter set	Explanations
DIRECT	Used to connect a circuit without 3-way valve (e.g.: radiator circuit)
DISAB.	Used to prevent the display of circuit A when it is not present
3WV	Connecting a circuit with 3-way valve (For example: Underfloor heating)
SWIM.	Used to connect a swimming pool
SUN	Used to connect a solar installation
DHW LO.	Used to connect a domestic loop pump (not for use with solar installations)
PROGRAM.	Use as independent clock (application ex heating)
PRIM.P	Use as a primary pump (Cascade): ▸ Master boiler (Number 1): The pump runs whenever there is a heating request from the secondary circuit (Circuits A, B, C or ECS on one of the boilers connected in cascade or to a DIEMATIC VM control system). ▸ Secondary boiler (Numbers 2 to 10): The pump runs whenever there is a heating request on one of the circuits connected to the secondary boiler.
STOR.T.	Used to connect an hot water storage tank
DIRECT+	Used to connect a circuit without three way valve and without summer shutdown
3WV+	Used to connect a three way valve circuit but without summer shutdown
CASC:	The inlet sensor is used to connect the common flow sensor of a cascade system
TAM A, **TAM B**, **TAM C**	Makes it possible to use the inlet as a command: ▸ Contact open - No reheating ▸ When the contact is closed, circuit A, B, C is in Automatic mode
TAM AUX	▸ The **S.AUX1:** outlet is commanded on the **E.AUX1:** inlet (**E.AUX1:** closed, **S.AUX1:** activated) ▸ The **S.AUX2:** outlet is commanded on the **E.AUX2:** inlet (**E.AUX2:** closed, **S.AUX2:** activated) ▸ The **S.AUX3:** outlet is commanded on the **E.UNIV:** inlet (**E.UNIV:** closed, **S.AUX3:** activated) Moreover, when the **TAM AUX** configurated inlet is closed, the calculated boiler temperature is equal to the boiler maximum.
VM PUMP	Used to control a primary pump which only supplies the circuits connected to the DIEMATIC VM
DHW LO2	Makes it possible to use the outlet as a loop pump on the second domestic hot water tank
DHW +	Using the DHW tank with 2 sensors (top and bottom)
DHW2 +	Using DHW tank 2 with 2 sensors (top and bottom)
PARA	All the boilers start up when a stage is added if the outside temperature is lower than the instruction **PARELLEL CASC;**
CLASSIC	The boilers are triggered successively when a stage is added

- **O. TEL:**
  The telephone outlet contact on DIEMATIC is located between terminals 3 and 4 on the telephone terminal block.
  The telephone outlet **O. TEL:** is configured as **FAILURE** or **DEF+REV**:
  In a cascade installation with K3 control panels, this outlet will also be activated if an error occurs on a K3 control panel.

- **CT.TEL:**
  Defines the nature of the contact (open or closed) which activates the function associated with the telephone input.

- **I.TEL:**
  Used to define the function associated with the telphone input.
  The telephone input on DIEMATIC is located between terminals 1 and 2 on the telephone terminal block.

KT.TEL: setting			**OPEN**	**CLOSE**	**OPEN**	**CLOSE**
I.TEL: status			**OPEN**	**CLOSE**	**CLOSE**	**OPEN**
I.TEL:	**ANTIFR**		Boiler operating mode selected	Antifreeze mode	Antifreeze mode	Boiler operating mode selected
	DHW+HEAT	Hot water storage tank affected to heating and domestic hot water	Burner, heating load pump (auxiliary pump) and DHW load pump shut down.		Boiler operating mode selected.	
	HEAT	Hot water storage tank affected to heating only	Heating load pump (auxiliary pump) shut down. Burner shut down if domestic hot water requirement.			
	DHW	Hot water tank affected to domestic hot water only	The DHW function is not ensured by the boiler.			

- **MAX.CIRC...**

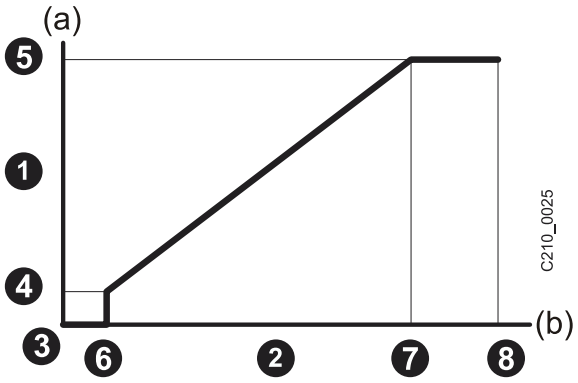
If using underfloor heating, do not modify the factory setting (50 °C).
Regulations require a safety system independent of the control unit, with manual reset, which cuts the heat supply to the underfloor heating when the temperature of the fluid reaches 65°C (France: NF P 52-303-1).

Connect a safety thermostat to the TS contact on the pump connector.

- **FL.DRY...**
  Used to impose a constant outlet temperature to accelerate drying of an underfloor heating floor.
  The setting of this temperature must follow the recommendations from the underfloor heating installer.
  The activation of this parameter (setting other than **NO**) forces the permanent display of **FL.DRY C** and deactivates all other functions on the control unit.
  When floor drying is active on a circuit, all other circuits (e.g. DHW) are shut down. The use of this function is only possible on one circuit.

- **OUT.ANTIFREEZE**
  Below this temperature the pumps are permanently on and the minimum temperatures for each circuit are respected.
  When **NIGHT : STOP** is set, the reduced temperature is maintained in each circuit.

- **0-10 V function**
  This function controls the boiler using an external system that includes a 0-10 V output connected to the 0-10 V input. This command imposes a temperature or output instruction on the boiler. Care must be taken to ensure that the parameter **BOILER MAX** is higher than **CONS.MAX 0-10V** and that **BOILER MIN** is lower than **CONS.MIN 0-10V** if the inlet is configured for output.



❶ Instruction set outlet temperature (°C)
or
Output instruction (%)

❷ Power input signal (V) - DC

❸ 0 V

❹ **CONS.MIN 0-10V**

❺ **CONS.MAX 0-10V**

❻ **VMIN/OFF 0-10V**

❼ **VMAX 0-10V**

❽ 10 V

(a)	Boiler temperature or Output	- Modulation range from 0 to 100% for perfect adjustment to needs - Min output setting = 0%
(b)	Voltage at input	If the input voltage is less than **VMIN/OFF 0-10V**, the boiler is off. The boiler temperature instruction or output instruction is strictly related to inlet 0-10 V. The secondary boiler circuits continue to operate but have no impact on the water temperature in the boiler. If using the 0-10 V inlet and a secondary boiler circuit, the external regulator supplying this 0-10 V voltage must always request a temperature or output at least equal to the needs of the secondary circuit.
	For example : **Factory setting:** **VMIN/OFF 0-10V** = 0.5 V **VMAX 0-10V** = 10 V **CONS.MIN 0-10V** = 5 **CONS.MAX 0-10V** = 100	- Output command ; Vin = 4.5 V --> Deposit = 45% - Temperature command: Vin = 4.5 V --> Deposit = 45 °C - Vin< 0.5 V --> Stopping the boiler

- **BURN.MIN.RUN**
  Setting the burner minimum operation time.

- **HYSTERESIS A**, **BURNER DELAY**
  The change of stage is done according to a simple differential timed algorithm and on verification of residual output. Differential A manages the operation of the last stage triggered.
  The burner timing generates orders to change the number of stages assisted by a specific verification algorithm. When the set temperature is exceeded, timing is halved.
  The factory setting suits the majority of scenarios. You are advised not to modify it.

- **B.P. DELAY**
  Timing on gate valve closure and return injection pump or shunt pump shutdown.

- **RELIEVE B.**
  Boiler power cut off. This function prevents start-up of the heating installation until the temperature in the boiler has reached the preset minimum. The 3-way valves are closed and the pumps stopped.

■ Installer parameters (continued)

Press	Display		Parameter set	Factory setting	Range of adjustment	Customer setting
5 seconds then	#SECONDARY		Setting parameters specific to the installation using keys + or -			
	BUILD. INERTIA		Characterisation of building's inertia	3 (22 hours)	0 (10 hours) to 10 (50 hours)	
	ROOM INFL. A *		Influence of room sensor A	3	0 to 10	
	ANTICIP.A *		Activation and adjustment of the anticipation time (Circuit A)	OFF	NO - from 1 h to 10 h	
	ROOM INFL. B *		Influence of room sensor B	3	0 to 10	
	ANTICIP.B *		Activation and adjustment of the anticipation time (Circuit B)	OFF	NO - from 1 h to 10 h	
	ROOM INFL. C *		Influence of room sensor C	3	0 to 10	
	ANTICIP.C *		Activation and adjustment of the anticipation time (Circuit C)	OFF	NO - from 1 h to 10 h	
	NIGHT *	DEC.	The lower temperature is maintained (Night mode)	DEC.	DEC. STOP	
		STOP	The boiler is stopped (Night mode)			
	MODE:	MONO	The override on the remote control is only applied to the circuit to which it is connected	MONO	MONO/ ALL.CIRC.	
		ALL.CIRC.	The override on the remote control is applied to all circuits			
	BAND WIDTH 3WV *		Control unit bandwidth for the 3-way valves.	12 K	4 to 16 K	
	BOIL/3WV SHIFT *		Minimum temperature difference between the boiler and the valves.	4 K	0 to 16 K	
	H. PUMP DELAY		Timing of the shutdown of the heating pumps.	4 minutes	0 to 15 minutes	
	HW. PUMP DELAY *		Timing of the shutdown of the domestic hot water pump.	2 minutes	0 to 15 minutes	
	ADAPT *	ON	Automatic adaptation of the heating curves for each circuit with a room sensor with an influence of > 0.	ON	ON OFF	
		OFF	The heating curves can only be modified manually.			
	DHW *	TOTAL	Interruption of pool heating and reheating during domestic hot water production.	TOTAL	TOTAL SLIDING NO PRIOR.	
		SLIDING	Domestic hot water production and valve circuit heating if available output is sufficient.			
		NO PRIOR.	Heating and domestic hot water production. **Risk of overheating in the direct circuit.**			
then	OPTIM.DHW *		- Used to force DHW tank loading when switching to day mode (If the DHW temperature is less than the DHW instruction - 1 K). - Used to force DHW tank loading if the primary temperature (boiler or cascade) is higher than the primary DHW instruction (If the DHW temperature is less than the DHW instruction - 1 K).	OFF	OFF/ON	
	LEG PROTEC *		Activation of the leg protec function	OFF	:DAY/ WEEKLY OFF	

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

At the end of the intervention, the data is stored after 2 minutes or by closing the flap.

- **BUILD. INERTIA**

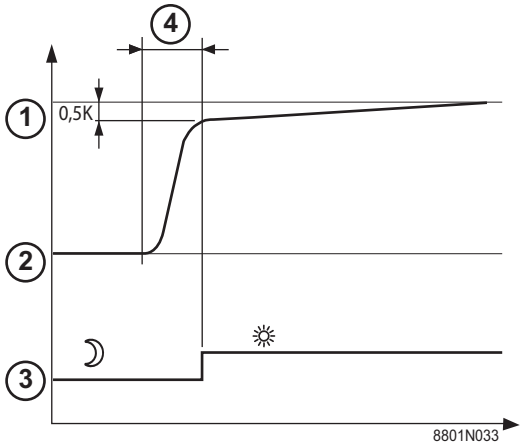
Modification of the factory setting is only useful in exceptional cases.

0 for a building with low thermal inertia.

3 for a building with normal thermal inertia.

10 for a building with high thermal inertia.

- **ANTICIP.A, ANTICIP.B, ANTICIP.C**



① Room temperature instruction - Comfort

② Room temperature instruction - Low

③ Time schedule

④ Anticipation time = Accelerated reheating phase

The anticipation function calculates the heating restart time to reach the desired room temperature less 0.5 K at the time programmed for switching to comfort mode.

The start time of the timed programmed corresponds to the end of the accelerated reheating phase.

The function is activated by setting a different **NO** value.

The value set corresponds to the time considered necessary to return the installation to the required temperature (outside temperature 0°C), starting from a residual room temperature corresponding to the low nocturnal instruction.

Anticipation is optimised if a room sensor is connected.

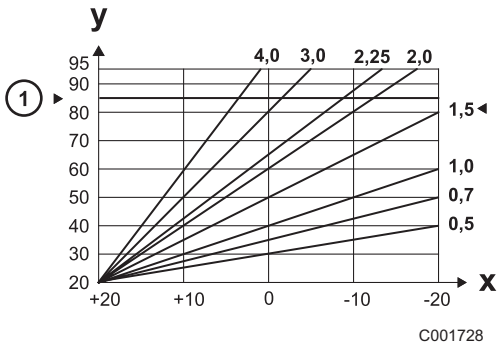
The regulator will automatically fine set the anticipation time.

This function is dependent on the surplus output available in the installation.

- **CIRC. CURVE ...**

Independent setting for each circuit

- Heating curve circuit A



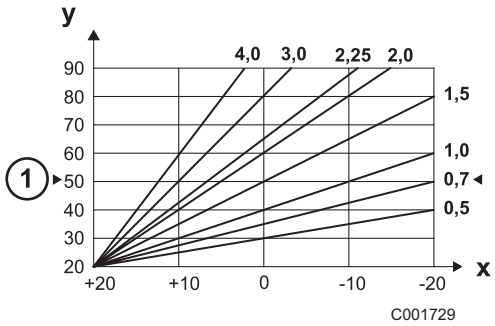
① Maximum boiler temperature (factory setting 85 °C)

If circuit A is configured as **DIRECT** (or **DIRECT+**), otherwise it is the maximum temperature on circuit A configured as **3WV** (or **3WV+**).

x Outside temperature (°C)

y Water flow temperature (°C)

- Heating curve circuit B or C



① Maximum temperature of the circuit (factory setting 50 °C)

x Outside temperature (°C)

y Water flow temperature (°C)

- **BAND WIDTH**

Option of increasing the bandwidth if the valves are rapid or of reducing it if they are slow.

- **H. PUMP DELAY**

The timing of heating pump shutdown prevents the boiler overheating.

- **HW. PUMP DELAY**
  The timing of the domestic hot water load pump shutdown prevents the boiler and the heating circuits overheating.

- **LEG PROTEC** (when DHW tank is connected)
  :DAY: The tank is overheated every day from 4 o'clock to 5 o'clock.
  WEEKLY: The tank is overheated every Saturday from 4 o'clock to 5 o'clock.
  The "anti legionella" function acts to prevent the development of legionella in the dhw tank, these bacteria are responsible for legionellosis.

  Set the maximum temperature of the boiler (**BOILER MAX.**) to 80°C and fit a mixing system which prevents the distribution of domestic hot water at a temperature higher than 60°C.

- **BOIL/3WV SHIFT**
  Minimum temperature difference between the boiler and the valves.

- **DHW**
  TOTAL: Total priority for domestic hot water production: heating and pool reheating interrupted.
  SLIDING (1): The setting checks if the boiler is capable of ensuring the heating of the installation and of the tank at the same time. If necessary, heating the valve circuits is ensured, if not the heating pumps are stopped and the valves are closed.
  NO PRIOR.: heating is not cut off during dhw production. In this configuration, the heating equipment must be fitted with a mixer valve.

  If there is a heating circuit, radiator temperature may reach the maximum set temperature for heating while the domestic hot water tank is being filled.

  (1) In this configuration, the heating equipment must be fitted with a mixer valve.

- **ROOM S.INFL**
  Used to adjust the influence of the room sensor on the water temperature for the circuit concerned.

  0 No influence (remote control fitted in a location with no influence)
  1 Slight influence
  3 Average influence (recommended)
  10 Room thermostat type operation

- **NIGHT**

  This parameter is displayed if at least one circuit does not include a room sensor.

  For circuits without a room sensor:

  - **NIGHT:DEC.** (Reduced): The reduced temperature is maintained during reduced periods. The circuit pump operates constantly.
  - **NIGHT : STOP** (Stop): Heating is shut down during reduced periods. When the installation's antifreeze function is active, the function **NIGHT DEC.** is activated.

  For circuits with a room sensor:

  - **NIGHT : STOP** is active when the room temperature is higher than its setting.
  - **NIGHT DEC.** is active when the room temperature is lower than its setting.

6.9 Parameter and input/output check (mode tests)

Press	Display	Output or input parameter status
10 seconds then	**#PARAMETERS**	
	PERMUT **	Cascade master boiler
	STAGE **	Stages in operation (Number of boilers requesting heating)
	NB.CASC.: **	Number of boilers recognised in the cascade
	NB. VM: **	Number of DIEMATIC VM controls recognised on the BUS
	MEAN OUTSIDE T	Average outside temperature
	CALC.T. BOILER	Temperature calculated by the boiler
	BOILER TEMP.	Measured boiler temperature
	CALC.T.CASC **	Calculated temperature cascade outlet
	CASCADE TEMP. **	Cascade temperature
	CALCULATED T. A	Calculated temperature for circuit A
	OUTLET TEMP. A *	Measured start temperature A
	CALCULATED T. B	Calculated temperature for circuit B
	OUTLET TEMP. B *	Measured start temperature B
	CALCULATED T. C	Calculated temperature for circuit C
	OUTLET TEMP. C *	Measured start temperature C
	KNOB A *	Position of temperature setting button on room sensor A
	KNOB B *	Position of temperature setting button on room sensor B
	KNOB C *	Position of temperature setting button on room sensor C
	OFFSET ADAP A *	Parallel trigger calculated for circuit A
	OFFSET ADAP B *	Parallel trigger calculated for circuit B
	OFFSET ADAP C *	Parallel trigger calculated for circuit C
then	**#DEF. HISTORY**	Failure history
	1 DEF... ...	Failure memorised + day, month and time of the failure
	10 DEF...	Failure memorised + day, month and time of the failure
then	**#TEST OUTPUTS**	
	VS: OPEN / CLOSE	Open/Close safety valve
	CO: OPEN / CLOSE	Open/Close flue damper
	H. PUMP: OFF/ON	Boiler pump ON/OFF
	V.ISOL : OPEN / CLOSE	Gate valve Open/Close
	P.CIRC.A : YES/NO *	Stop/start pump circuit A
	OP. 3WV A ON/OFF *	Open/Close valve circuit A
	CL. 3WV A ON/OFF *	Close/Stop valve circuit A
	DHW PUMP : YES/NO *	Stop/start domestic hot water pump
	AUX1.CIRC. ON/OFF *	Pump ON/OFF auxiliary outlet 1
	AUX2.CIRC. ON/OFF *	Pump ON/OFF auxiliary outlet 2
	AUX3.CIRC. ON/OFF *	Pump ON/OFF auxiliary outlet 3
	OP. 3WVB: YES/NO *	Open/Close valve circuit B
	CLOSE V3WB: YES/NO *	Close/Stop valve circuit B
	P.CIRC B : YES/NO *	Stop/start pump circuit B
	OPEN 3WV C: YES/NO *	Open/Close valve circuit C
	CLOSE V3W C: YES/NO *	Close/Stop valve circuit C
	P.CIRC. C: YES/NO *	Stop/start pump circuit C
	TEL. OUTPUT: YES/NO *	On/Off telephone relay outlet

Press	Display	Output or input parameter status
then	**#TEST INPUTS**	
	H. PUMP	**ON** / **NO**
	V.ISOL :	**CLOSE** / **OPEN**
	VS:	**CLOSE** / **OPEN**
	CO:	**CLOSE** / **OPEN**
	PSG :	**CLOSE** / **OPEN**
	CCE :	**CLOSE** / **OPEN**
	PHONE REM. *	Bridge on telephone input (1 = presence, 0 = absence)
	E.AUX1: *	**CLOSE** / **OPEN**
	E.AUX2: *	**CLOSE** / **OPEN**
	E.UNIV: *	**CLOSE** / **OPEN**
	AUX1.CIRC. OFF / ON *	Status requested for auxiliary outlet pump 1
	AUX2.CIRC. OFF / ON *	Status requested for auxiliary outlet pump 2
	AUX3.CIRC. OFF / ON *	Status requested for auxiliary outlet pump 3
	R.CTRL A ON/NO	Remote control A (yes = presence, no = absence)
	R.CTRL B ON/NO	Remote control B (yes = presence, no = absence)
	R.CTRL C ON/NO	Remote control C (yes = presence, no = absence)
	SEQ.	**XX - YY** (XX = Status OK - YY = Sub-Status) See table below: Sequences PCU
	PCU TYPE	= **1** (PCU connected to C 230 ECO)
	PCU SOFT	PCU programme version
	PARAM VERSION	Parameter version in the PSU
	SU TYPE	= **1** (SU connected to C 230 ECO)
	PSU TYPE	= **4** (PSU connected to C 230 ECO)
then	**#REVISION**	Activates the function generating a **REVISION** display when the date programmed is reached.
	REVISION HOUR	Time at which the **REVISION** display appears
	REV. YEAR	Year in which the **REVISION** display appears
	REVIS. MONTH	Month in which the **REVISION** display appears.
	REVISION DATE	Day on which the **REVISION** display appears

*** The line or title is only displayed for the options, circuits or sensors actually connected.**

**** The line is only displayed for boiler 1.**

■ **Sequences PCU**: Primary Control Unit (Operating management electronics)

Status OK	Sub-Status	Operation
0	0	Boiler stopped
1	1	Anti-short cycle activated
1	2	Open isolating valve
1	3	Start-up of the boiler pump
1	4	Awaiting burner start-up
2	10	Open gas valve (external)
2	11	Fan start-up to open the flue damper
2	12	Open flue damper
2	13	The fan switches to the burner start-up speed
2	14	Check RL signal (Function not active)
2	15	Burner on switch request
2	16	Leak proofing system test
2	17	Pre-ignition
2	18	Ignition
2	19	Check flame presence
2	20	Awaiting further action to unsuccessful ignition
3	30	Burner lit and free modulation on the boiler instruction
3	31	Burner lit and free modulation on a limited instruction, equal to a return temperature of + 30°C
3	32	Burner lit and free modulation on the boiler instruction but limited on the DIEMATIC-m3 See: Installer parameters: **#LIMITED TEMP.**
3	33	Burner lit and descending modulation following too large a rise in temperature on the exchanger (1.5 k in 10 seconds)
3	34	Burner lit and minimum modulation following too large a rise in temperature on the exhanger (3.5 k in 10 seconds)
3	35	Burner off following too large a rise in temperature on the exchanger (5.5 k in 10 seconds)
3	36	Burner lit and ascending modulation to guarantee a correct ionization current
3	37	Burner lit and minimum modulation after a burner start-up lasting 30 seconds
3	38	Burner lit and modulation fixed higher than the minimum after burner start-up lasting 60 seconds, if the burner was off for more than 2 hours or after powering up
5	40	The burner will stop
5	41	The fan switches to post-sweeping speed on the burner
5	42	The fan switches to close flue damper speed
5	43	Close flue damper
5	44	Stop fan
5	45	Close gas valve (external)
6	60	Post-operation of the boiler pump
6	61	Stop boiler pump
6	62	Close isolating valve
6	63	Start anti short cycle
8	0	Awaiting burner start-up
8	1	Anti-short cycle activated
9	--	Blockage detected
10	--	Lock-out

7 Messages - Faults

7.1 Messages

Message	Code no.	Probable causes	Action
SHOW REM. CTRL		The message **SHOW REM.CTRL** indicates the presence of an override on a remote control	To cancel the overrides on all remote controls, press the **AUTO** key for 5 seconds
REVISION		Boiler service required	Contact the professional responsible for maintenance of the boiler
BL.PSU ERROR	**0**	Error parameters	- Switch the boiler off and switch back on - Set the boiler type parameter (See **#CONFIGURATION**)
BL.MAX BOILER	**1**	Boiler temperature > 110 °C	Wait 10 minutes for the temperature to come down
BL.MAX EXCHAN	**3**	Heat exchanger temperature > 95 °C	- Wait 10 minutes for the temperature to come down - Check the water flow - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled - Check: Heat exchanger fouled
BL.DERIVE EXCH	**4**	The speed at which the exchanger temperature is rising is too high	- Wait 10 minutes for the temperature to come down - Check the water flow - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled - Check: Heat exchanger fouled
BL.DT EXC.BACK	**5**	The temperature difference between the exchanger sensor and the return sensor is too great (35 K)	- Wait 10 minutes for the temperature to come down - Check the water flow - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled - Check: Heat exchanger fouled
BL.DT BOI.EXC.	**6**	The temperature difference between the boiler sensor and the exchanger sensor is too great	- Wait 10 minutes for the temperature to come down - Check the water flow - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled - Check: Heat exchanger fouled
BL.RL OPEN	**8**	The **RL** inlet on the PCU is open	- Switch the boiler off and switch back on - Set the boiler type parameter (See **#CONFIGURATION**)
BL.INV. L/N	**9**	- Phase and neutral inverted - Mains electricity with floating or two-phase neutral	- Respect the rating plate on the connection terminal block - Set the boiler type parameter (See **#CONFIGURATION**)
BL.CS OPEN	**11**	The contact inlet **CS** is open	Check the cause of the open contact **CS**
BL.COM PCU-M3	**13**	Communication breakdown between PCU and DIEMATIC-m3	Check the link and the connectors
BL.GAS PRESS	**15**	Gas pressure too low	Check: - Opening the gas valve on the boiler - Gas supply pressure - Correct installation of the pressure switch (Replace if necessary)
BL.BAD SU	**16**	The SU is not compatible with the PCU	- Switch the boiler off and switch back on - SU: Change them
BL.PCU ERROR	**17**	Error parameters	- Switch the boiler off and switch back on - PCU: Change them
BL.BAD PSU	**18**	The PSU is not compatible with the PCU	- Switch the boiler off and switch back on - PSU: Change them - Set the boiler type parameter
BL. COM SU	**21**	Communication breakdown between PCU and SU	Check the installation of the SU on the PCU

Message	Code no.	Probable causes	Action
BL.FLAME LOS	**22**	Flame lost	- Wait 10 seconds - If, after 5 attempts, the error persists, **BL.FLAME LOS** changes to **I-CURRENT FAIL** Check: - Opening the gas valve on the boiler - Gas pressure - Setting the gas valve unit - Check the connection of the combusted gas evacuation and the air inlet - Checking the heat exchanger
BL.CCE TEST	**24**	The cyclical leak proofing kit (CCE) has detected a problem	- Wait 10 seconds - If, after 5 attempts, the error persists, **BL.CCE TEST** changes to **CCE TEST FAIL** Check: - Opening the gas valve on the boiler - Gas pressure - Correct installation of the pressure switch handling the CCE function (Replace if necessary) - Gas valve (Replace if necessary) - Wiring
BL.SU ERROR	**25**	SU: Internal error	- Wait 10 seconds - SU: Change them
BL.UNKNOWN	**254**	Blockage unknown	- Switch the boiler off and switch back on - SU: Change them

Messages are not memorised.

7.2 Faults

Faults	Code no.	Probable causes	Action
BOILER S.FAIL.	**32**	The boiler sensor is short circuited	- Reset the box - Check the link and the connectors - Replace the sensor if necessary
	33	The boiler sensor is off	
BACK S.FAILURE	**6**	The return sensor is short circuited	- Reset the box - Check the link and the connectors - Replace the sensor if necessary
	7	The return sensor is off	
	8	The sensor reading is under -10°C	
EXCHAN.S.FAIL.	**2**	The exchanger sensor is short circuited	- Reset the box - Check the link and the connectors - Replace the sensor if necessary
	3	The exchanger sensor is off	
	4	The sensor reading is under -10°C	
OUTSI. S.FAIL. **DHW S. FAILURE** **AUX1.SENS.FAIL** **AUX2.SENS.FAIL** **UNIV.SENS.FAIL** **OUTL S.A FAIL.** **OUTL S.B FAIL.** **OUTL S.C FAIL.** **ROOM S.A FAIL.** **ROOM S.B FAIL.** **ROOM S.C FAIL.** **SWIM.P.A S.FAIL** **SWIM.P.B. S.FAIL** **SWIM.P.C. S.FAIL** **SOLAR S. FAIL** **ST.TANK S.FAIL** **DHW 2 S. FAIL**		The corresponding sensor is off or short-circuited.	Check the link and the connectors. Replace the sensor if necessary. See comments below.
BOILER 2 FAIL. **BOILER 3 FAIL.** **BOILER 4 FAIL.** **BOILER 5 FAIL.** **BOILER 6 FAIL.** **BOILER 7 FAIL.** **BOILER 8 FAIL.** **BOILER 9 FAIL.** **BOILER 10 FAIL.**		Error on a secondary boiler, in a cascade installation.	Press key to see the error.
TA-S SHORT-CIR		The Titan Active System® is short-circuited.	Check that the Titan Active System® is not short-circuited.
TA-S DISCONNEC		The Titan Active System® is on an open circuit.	Check that the Titan Active System® is correctly connected.
TA-S FAILURE		Internal problem.	- Switch off the current. - Contact the professional responsible for maintenance of the boiler.
PSU FAIL	**0**	PSU not connected or faulty	- Reset the box - Check the link and the connectors - PSU: Replace if necessary
PSU PARAM FAIL	**1**	Safety parameter errors	- Reset the box - Check the link and the connectors - PSU: Replace if necessary
STB EXCHANGE	**5**	Exchanger temperature too high	- Reset the box - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled - Check: Heat exchanger fouled
STB BACK	**9**	Return temperature too high	- Reset the box - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled - Check: Heat exchanger fouled

Faults	Code no.	Probable causes	Action
EXCH-BACK<MIN	**10**	- The temperature difference between the exchanger sensor and the boiler flow sensor is too little - Sensor defective - No flow rate or flow rate too low - Sensor installed incorrectly	- Reset the box - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled Check: - Heat exchanger fouled - Sensor installed correctly - Level differences on the temperature sensors
EXCH-BACK>MAX	**11**	- The temperature difference between the exchanger sensor and the boiler flow sensor is too great - Sensor defective - No flow rate or flow rate too low - Sensor installed incorrectly	- Reset the box - Check that the installation and boiler are adequately filled with water and correctly irrigated and bled Check: - Heat exchanger fouled - Sensor installed correctly - Level differences on the temperature sensors
SMOKE.P.FAIL	**12**	- The flue gas pressure switch is open - Bad connection - The pressure in the combusted gases evacuation duct is too high	- Reset the box - Check the wiring - Ensure that the siphon is not empty. Top up with more water if necessary - It is possible that the combustion products evacuation pipe is totally or partially obstructed - Check: Open flue damper
BURNER FAILURE	**14**	- No flame after 5 ignition attempts - No ignition spark	- Reset the box - Check the correct connection of the ignition cable and that there is no breakdown or short circuit on the earth Check: - the gap between the electrodes (3 to 4 mm) - Burner cover status (Burner / electrode cover closed) - Faulty control by the SU board
		- No flame after 5 ignition attempts - No flame	- Reset the box - First check that the gas valve is open, that the gas supply pressure is present, that the gas conduit has been sufficiently bled, that the air/flue gas conduit is not blocked and is not leaking, that the siphon is full and not blocked - The gas valve unit must be set with precaution - Gas block: Wiring OK - Faulty control by the SU board
		- No flame after 5 ignition attempts - Flame present (insufficient ionization)	Check the correct connection of the ignition cable and that there is no breakdown or short circuit on the earth Check: - Check the electrode condition - Opening the gas valve on the boiler - Gas supply pressure
CCE TEST FAIL	**15**	- The cyclical leak proofing kit (CCE) has detected a leak	- Reset the box Check: - Opening the gas valve on the boiler - Gas supply pressure - Replace the gas valve (If necessary)

Faults	Code no.	Probable causes	Action
PARASIT FLAME	**16**	Detection of a parasite flame	- Reset the box Check: - Ignition/ionization electrode - Leak on the gas valve - Gas inlet valve closed (Compulsory)
VALVE FAIL	**17**	Gas valve defective	- Reset the box - Check the link and the connectors - Check the gas valve and replace if necessary
FAN FAILURE	**34**	The fan is not running at the right speed	- Reset the box Check: - Cabling error - Fan error
BACK>BOIL FAIL	**35**	The return temperature is higher than the boiler temperature	- Reset the box - Check the water circulation direction in the boiler - Check that the boiler sensor and the return sensor have not been reversed
I-CURRENT FAIL	**36**	The flame went out more than 5 times in 24 hours while the burner was operating	- Reset the box Check: - Gas supply pressure - Pressure regulator - Setting the gas valve unit
SU COM.FAIL	**37**	Communication breakdown between PCU and SU	- Reset the box - Check the installation of the SU on the PCU
PCU-M3 COM.FAIL	**38**	Communication breakdown between PCU and DIEMATIC-m3	- Reset the box - Check the link and the connectors
CS OPEN FAIL	**39**	The contact inlet **CS** is open	- Check the cause of the open contact **CS** - Reset the box
FAIL. UNKNOWN	**254**	Fault unknown	- Switch the boiler off and switch back on - SU: Change them
PCU COM. FAIL		Communication breakdown between DIEMATIC-m3 and PCU	- Reset the box - Check the link and the connectors - Switch the boiler off and switch back on
5 RESET:ON/OFF		5 resets done in less than an hour	- Switch the boiler off and switch back on. The current error is displayed and can be reset
MC COM.FAIL		Communication error between DIEMATIC M3 and the boiler module for the CDI radio (CDR)	- Check the link between the DIEMATIC M3 and the boiler module

Remarks	
OUTSI. S.FAIL.	The boiler operates on **BOILER MAX** temperature - The valve setting is no longer ensured but monitoring the maximum temperature of the circuit after the valve is ensured. - Valves may be manually operated. - Reheating the domestic hot water remains ensured.
DHW S. FAILURE	The hot water storage tank reheating operation is no longer assured.
OUTL S.A FAIL., **OUTL S.B FAIL.** and **OUTL S.C FAIL.**	The circuit concerned goes from automatic to manual mode: The pump operates.
ROOM S.A FAIL., **ROOM S.B FAIL.** and **ROOM S.C FAIL.**	The circuit concerned operates without any influence from the room sensor.
SWIM.P.A S.FAIL, **SWIM.P.B. S.FAIL**, **SWIM.P.C. S.FAIL**	Pool reheating is independent of its temperature.
SOLAR S. FAIL	Reheating domestic hot water using the solar panel is no longer ensured.
ST.TANK S.FAIL	The hot water storage tank reheating operation is no longer assured.
TAS...	Domestic hot water production is shut down and can be restarted using key . **The tank is no longer protected.** **Contact the professional responsible for maintenance of the boiler.** A tank without Titan Active System® is connected to the boiler: Check that the Titan Active System® simulation connector (delivered with package AD212) is fitted to the sensor card.

The last ten failures are memorised in the paragraph **#DEF. HISTORY**

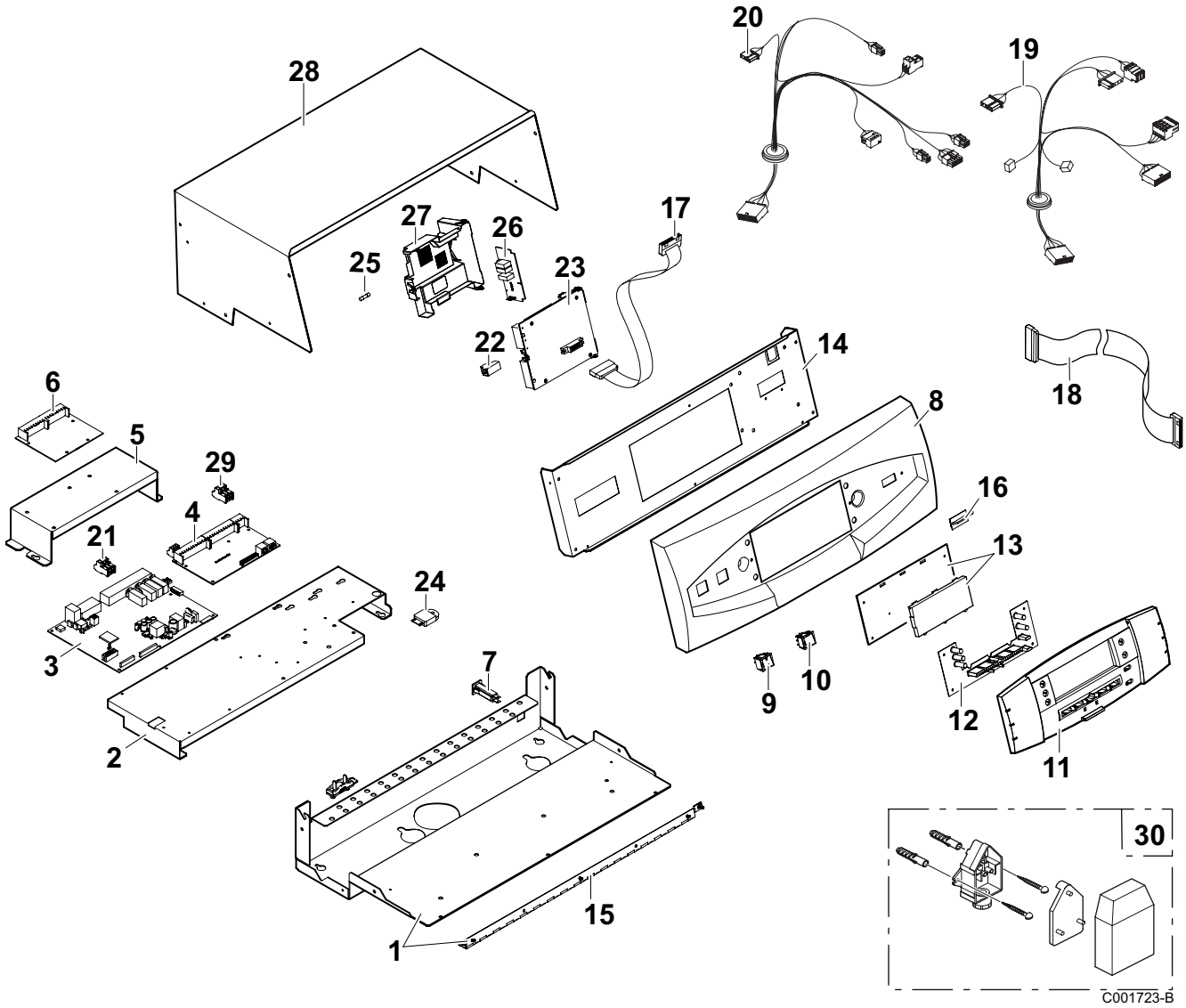
See: "Parameter and input/output check (mode tests)

8 Spare parts

21/07/09 - 300015243-002-D

To order a spare part, quote the reference number next to the part required.

Control panel DIEMATIC-m3 - C 230 ECO



DE DIETRICH THERMIQUE S.A.S. - Spare parts centre
4 rue d'Oberbronn - F-67110 REICHSHOFFEN - +33 (0)3 88 80 26 50 - +33 (0)3 88 80 26 98
cpr@dedietrichthermique.com

Ref.	Code no.	Description
1	200012134	Painted control panel base
2	200012135	Lower card support
3	200010216	Central unit PCB
4	200004060	Relay card DIEMATIC-m3
5	200011482	Card support (upper)
6	200005048	Sensor card DIEMATIC-m3
7	9534-0288	Timed circuit breaker (4 A)
8	200011506	Complete band
9	9532-5027	Green S/S bipolar switch
10	9532-5092	Momentary bipolar switch
11	300005130	Module M3
12	300005134	Elastomer keyboard
13	200004091	Display PCB M3
14	200011508	Panel support
15	200012138	Piano hinge (Length 510)
16	300007161	PORT PC hood
17	20005129	Flat jumper
18	300007643	Sheeting 20 pts length 750
19	115689	Cable conductor 230 V-1
20	S100629	Cable conductor 24 V-1
21	200011345	RAST5 2-pin connector fitted PSG
21	200009546	RAST5 2-pin connector CCE (Leak proofing system)
21	200006052	2 pin connector fitted CR (Relay contact)
21	300009071	2 pts 0-10V connector
21	300009077	3 pt connector auxiliary pump
21	200009252	RAST5 3-pin connector CO (Flue damper)
21	300009074	3 pts A/VS connector
21	300009075	3 pt power supply connector
21	200009251	RAST5 3-pin connector VS (Safety valve)
21	300009079	4 pts V3V connector
22	200009965	2 pin connector fitted BL
22	200006921	RAST5 2-pin connector fitted RL
22	200006923	RAST5 2-pin connector fitted OT
22	200006920	3-pin plug RAST5 Pump
23	S100578	Card PCU 01 / SU 01
24	S100650	PCB - Storage Unit Parameter (Boiler parameter storage)
25	116612	1.6 AT fuse
26	S100577	SU safety PCB
27	S100631	Protective cover
28	200011510	Painted panel cover assembled
29	300009122	2 pin connector E.AUX1
29	300009070	2 pt connector exterior sensor
29	300009072	2 pin connector S AUX UNIV
29	300008954	2 bridge connector S.ROOM A
29	300009121	2 pin connector E.AUX2
29	300009102	4 pt connector RT
29	200006060	Mounted 5-pin connector TS + pump
30	9536-2450	Exterior sensor AF60

DE DIETRICH THERMIQUE S.A.S.

www.dedietrich-thermique.fr

Direction des Ventes France
57, rue de la Gare
F- 67580 MERTZWILLER
+33 (0)3 88 80 27 00
+33 (0)3 88 80 27 99

ÖAG AG

www.oeag.at

Schemmerlstrasse 66-70
A-1110 WIEN
+43 (0)50406 - 61624
+43 (0)50406 - 61569
dedietrich@oeag.at

DE DIETRICH REMEHA GmbH

www.dedietrich-remeha.de

Rheiner Strasse 151
D- 48282 EMSDETTEN
+49 (0)25 72 / 23-5
+49 (0)25 72 / 23-102
info@dedietrich.de

NEUBERG S.A.

www.dedietrich-heating.com

39 rue Jacques Stas
L- 2010 LUXEMBOURG
+352 (0)2 401 401

VAN MARCKE

www.vanmarcke.be

Weggevoerdenlaan 5
B- 8500 KORTRIJK
+32 (0)56/23 75 11

DE DIETRICH

www.dedietrich-otoplenie.ru

Россия
109044 г. Москва
ул. Крутицкий Вал, д. 3
корп. 2, оф. 35
+7 495 988-43-04
+7 495 988-43-04
dedietrich@nnt.ru

WALTER MEIER (Klima Schweiz) AG

www.waltermeier.com

Bahnstrasse 24
CH-8603 SCHWERZENBACH
+41 (0) 44 806 44 24
Serviceline +41 (0)8 00 846 846
+41 (0) 44 806 44 25
ch.klima@waltermeier.com

WALTER MEIER (Climat Suisse) SA

www.waltermeier.com

Z.I. de la Veyre B, St-Légier
CH-1800 VEVEY 1
+41 (0) 21 943 02 22
Serviceline +41 (0)8 00 846 846
+41 (0) 21 943 02 33
ch.climat@waltermeier.com

DE DIETRICH

www.dedietrich-heating.com

Room 512, Tower A, Kelun Building
12A Guanghua Rd, Chaoyang District
C-100020 BEIJING
+86 (0)106.581.4017
+86 (0)106.581.4018
+86 (0)106.581.7056
+86 (0)106.581.4019
contactBJ@dedietrich.com.cn

CE
0085

AD001-AB

© Copyright

All technical and technological information contained in these technical instructions, as well as any drawings and technical descriptions supplied, remain our property and shall not be multiplied without our prior consent in writing.

Subject to alterations.

21/07/09

300015243- 001- E

De Dietrich

DE DIETRICH THERMIQUE
57, rue de la Gare F- 67580 MERTZWILLER - BP 30